

comprising contacting human DNA with a probe which comprises at least 10 contiguous nucleotides of a NORF gene whose expression varies as in M1; and (4) a method (M4) for identifying a candidate drug as a member of a class of drugs having a characteristic effect on gene expression in a yeast cell comprising contacting a yeast cell with a candidate drug and monitoring expression in the yeast cell of at least 1 NORF gene whose expression is affected by the class of drugs. The NORF genes may be used to study, monitor and affect phases of the cell cycle, the differentially expressed genes may be used as markers of phases of the cell cycle. The methods may be used to identify candidate drugs which affect the cell cycle and for identification of antifungal drugs. AAF33268 to AAF4064 represent SAGE tags used in the exemplification of the present invention. AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE method, in the exemplification of the present invention.

Sequence 10 BP; 2 A; 1 C; 2 G; 5 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 TACGTGTA 15  
DB 1 TACGTGTA 8

## RESULT 508

AAAF37881 standard; DNA; 10 BP.

AAAF37881;

23-MAR-2001 (first entry)

Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:4620.

Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF; nor previously assigned open reading frame; nonannotated ORF; SAGE; serial analysis of gene expression; antifungal; tag; identification; linker; PCR primer; ds.

Saccharomyces cerevisiae.

WO200077214-A2.

21-DEC-2000.

14-JUN-2000; 2000MO-US016223.

16-JUN-1999; 99US-00335032.

(UYUO) UNTV JOHNS HOPKINS.

Velculescu V, Vogelstein B, Kinzler K;

WPI; 2001-061874/07.

Yeast gene coding sequences comprising NORF genes with serial analysis of affecting phases of the cell cycle.

Example; Page 165; 419pp; English.

The present invention describes an isolated DNA molecule comprising a coding sequence of a yeast gene selected from a group of 745 NORF (not previously assigned open reading frame; or nonannotated ORF) genes comprising a SAGE (serial analysis of gene expression) tag. Also described are: (1) a method (M1) of using NORF genes to affect the cell cycle comprising administering a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from log phase, S phase and G2/M (2) a method (M2) for screening candidate antifungal drugs comprising: (a) contacting a test substance with a yeast cell; and (b) monitoring expression of a NORF gene whose expression

varies as in M1, where a test substance which modifies the expression of the yeast gene is a candidate antifungal drug; (3) a method (M3) for identifying human genes which are involved in cell cycle progression comprising contacting human DNA with a probe which comprises at least 10 contiguous nucleotides of a NORF gene whose expression varies as in M1; and (4) a method (M4) for identifying a candidate drug as a member of a class of drugs having a characteristic effect on gene expression in a yeast cell comprising contacting a yeast cell with a candidate drug and monitoring expression in the yeast cell of at least 1 NORF gene whose expression is affected by the class of drugs. The NORF genes may be used to study, monitor and affect phases of the cell cycle, the differentially expressed genes may be used as markers of phases of the cell cycle. The methods may be used to identify candidate drugs which affect the cell cycle and for identification of antifungal drugs. AAF33268 to AAF4064 represent SAGE tags used in the exemplification of the present invention. AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE method, in the exemplification of the present invention.

Sequence 10 BP; 2 A; 2 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 GTACAGGG 20  
DB 1 GTACAGGG 8

## RESULT 509

AAAF36719 standard; DNA; 10 BP.

AAAF36719;

23-MAR-2001 (first entry)

Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:3458.

Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF; nor previously assigned open reading frame; nonannotated ORF; SAGE; serial analysis of gene expression; antifungal; tag; identification; linker; PCR primer; ds.

Saccharomyces cerevisiae.

WO200077214-A2.

21-DEC-2000.

14-JUN-2000; 2000MO-US016223.

16-JUN-1999; 99US-00335032.

(UYUO) UNTV JOHNS HOPKINS.

Velculescu V, Vogelstein B, Kinzler K;

WPI; 2001-061874/07.

Yeast gene coding sequences comprising NORF genes with serial analysis of affecting phases of the cell cycle.

Example; Page 123; 419pp; English.

The present invention describes an isolated DNA molecule comprising a coding sequence of a yeast gene selected from a group of 745 NORF (not previously assigned open reading frame; or nonannotated ORF) genes comprising a SAGE (serial analysis of gene expression) tag. Also described are: (1) a method (M1) of using NORF genes to affect the cell cycle comprising administering a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from log

CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
 CC cell; and (b) monitoring expression of a NORF gene whose expression  
 CC varies as in M1, where a test substance which modifies the expression of  
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
 CC identifying human genes which are involved in cell cycle progression  
 CC comprising contacting human DNA with a probe which comprises at least 10  
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;  
 CC and (4) a method (M4) for identifying a candidate drug as a member of a  
 CC class of drugs having a characteristic effect on gene expression in a  
 CC yeast cell comprising contacting a yeast cell with a candidate drug and  
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
 CC expression is affected by the class of drugs. The NORF genes may be used  
 CC to study, monitor and affect phases of the cell cycle, the differentially  
 CC expressed genes may be used as markers of phases of the cell cycle. The  
 CC methods may be used to identify candidate drugs which affect the cell  
 CC cycle and for identification of antifungal drugs. AAF3268 to AAF4064  
 CC represent SAGE tags used in the exemplification of the present invention.  
 CC AAF3262 to AAF3267 represent linkers and PCR primers used in the SAGE  
 CC method, in the exemplification of the present invention

SO Sequence 10 BP; 1 A; 4 C; 3 G; 2 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 GGAGCCTA 9  
 Db 8 GGAGCCTA 1

RESULT 510  
 AAF40202/c  
 ID AAF40202 standard; DNA; 10 BP.

XX AAF40202;

DT 23-MAR-2001 (first entry)

DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:6941.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
 KM nor previously assigned open reading frame; nonannotated ORF; SAGE;  
 KM serial analysis of gene expression; antifungal; tag; identification;  
 KM linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

OS WO200077214-A2.

PN 21-DEC-2000.

PD 14-JUN-2000; 2000WO-US016223.

PF 16-JUN-1999; 99US-00335032.

PR (UYJO ) UNIV JOHNS HOPKINS.

PA Velculescu V, Vogelstein B, Kinzler K;

PI WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
 PT gene expression (SAGE) tags, useful for studying, monitoring and  
 PT affecting phases of the cell cycle.

XX Example; Page 247; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a  
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not  
 CC previously assigned open reading frame) or nonannotated ORF genes  
 CC comprising a SAGE (serial analysis of gene expression) tag. Also

CC described are: (1) a method (M1) of using NORF genes to affect the cell  
 CC cycle comprising administering a NORF gene whose expression varies by at  
 CC least 10% between any two phases of the cell cycle selected from log  
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate  
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast  
 CC cell; and (b) monitoring expression of a NORF gene whose expression  
 CC varies as in M1, where a test substance which modifies the expression of  
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for  
 CC identifying human genes which are involved in cell cycle progression  
 CC comprising contacting human DNA with a probe which comprises at least 10  
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;  
 CC and (4) a method (M4) for identifying a candidate drug as a member of a  
 CC class of drugs having a characteristic effect on gene expression in a  
 CC yeast cell comprising contacting a yeast cell with a candidate drug and  
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose  
 CC expression is affected by the class of drugs. The NORF genes may be used  
 CC to study, monitor and affect phases of the cell cycle, the differentially  
 CC expressed genes may be used as markers of phases of the cell cycle. The  
 CC methods may be used to identify candidate drugs which affect the cell  
 CC cycle and for identification of antifungal drugs. AAF3268 to AAF4064  
 CC represent SAGE tags used in the exemplification of the present invention.  
 CC AAF3262 to AAF3267 represent linkers and PCR primers used in the SAGE  
 CC method, in the exemplification of the present invention

SO Sequence 10 BP; 3 A; 3 C; 2 G; 2 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 19 GGAGTCCA 26  
 Db 9 GGAGTCCA 2

RESULT 511  
 AAF33645  
 ID AAF33645 standard; DNA; 10 BP.

XX AAF33645;

DT 23-MAR-2001 (first entry)

DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:384.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
 KM nor previously assigned open reading frame; nonannotated ORF; SAGE;  
 KM serial analysis of gene expression; antifungal; tag; identification;  
 KM linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

OS WO200077214-A2.

PN 21-DEC-2000.

PD 14-JUN-2000; 2000WO-US016223.

PF 16-JUN-1999; 99US-00335032.

PR (UYJO ) UNIV JOHNS HOPKINS.

PA Velculescu V, Vogelstein B, Kinzler K;

PI WPI; 2001-061874/07.

XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
 PT gene expression (SAGE) tags, useful for studying, monitoring and  
 PT affecting phases of the cell cycle.

XX Claim 1; Page 389; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a

coding sequence of a yeast gene selected from a group of 745 NORF (not previously assigned open reading frame; or nonannotated ORF) genes comprising a SAGE (serial analysis of gene expression) tag. Also described are: (1) a method (M1) of using NORF genes to affect the cell cycle comprising administering a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from log phase, S phase and G2/M; (2) a method (M2) for screening candidate antifungal drugs comprising: (a) contacting a test substance with a yeast cell; and (b) monitoring expression of a NORF gene whose expression varies as in M1, where a test substance which modifies the expression of the yeast gene is a candidate antifungal drug; (3) a method (M3) for identifying human genes which are involved in cell cycle progression comprising contacting human DNA with a probe which comprises at least 10 contiguous nucleotides of a NORF gene whose expression varies as in M1; and (4) a method (M4) for identifying a candidate drug as a member of a class of drugs having a characteristic effect on gene expression in a yeast cell comprising contacting a yeast cell with a candidate drug and monitoring expression in the yeast cell of at least 1 NORF gene whose expression is affected by the class of drugs. The NORF genes may be used to study, monitor and affect phases of the cell cycle, the differentially expressed genes may be used as markers of phases of the cell cycle. The methods may be used to identify candidate drugs which affect the cell cycle and for identification of antifungal drugs. AAF33268 to AAF44064 represent SAGE tags used in the exemplification of the present invention. AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE method, in the exemplification of the present invention.

Sequence 10 BP; 2 A; 2 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 13 GTACAGGG 20  
DB 1 GTACAGGG 8

RESULT 512  
AAAF3177/C  
ID AAF3177 standard; DNA; 10 BP.  
XX AAF3177;  
AC AAF3177;  
XX 23-MAR-2001 (first entry)  
DT XX  
XX  
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:11316.  
XX  
XX Yeast; Saccharomyces cerevisiae; characterization; cell cycle; NORF;  
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;  
KW serial analysis of gene expression; antifungal; tag; identification;  
XX linker; PCR primer; ds.  
XX  
XX Saccharomyces cerevisiae.  
OS  
XX  
XX WO200077214-A2.  
PN  
XX  
XX 21-DEC-2000.  
PD  
XX  
XX 14-JUN-2000; 2000WO-US016223.  
PF  
XX  
XX 16-JUN-1999; 99US-0035032.  
PR  
XX  
XX (UWJO) UNIV JOHNS HOPKINS.  
PA  
XX  
XX Velculescu V, Vogelstein B, Kinzler K;  
PI WPI; 2001-061874/07.  
DR  
XX  
XX Yeast gene coding sequences comprising NORF genes with serial analysis of  
PT gene expression (SAGE) tags, useful for studying, monitoring and  
XX affecting phases of the cell cycle.

Example; Page 354; 419pp; English.

The present invention describes an isolated DNA molecule comprising a coding sequence of a yeast gene selected from a group of 745 NORF (not previously assigned open reading frame; or nonannotated ORF) genes comprising a SAGE (serial analysis of gene expression) tag. Also described are: (1) a method (M1) of using NORF genes to affect the cell cycle comprising administering a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from log phase, S phase and G2/M; (2) a method (M2) for screening candidate antifungal drugs comprising: (a) contacting a test substance with a yeast cell; and (b) monitoring expression of a NORF gene whose expression varies as in M1, where a test substance which modifies the expression of the yeast gene is a candidate antifungal drug; (3) a method (M3) for identifying human genes which are involved in cell cycle progression comprising contacting human DNA with a probe which comprises at least 10 contiguous nucleotides of a NORF gene whose expression varies as in M1; and (4) a method (M4) for identifying a candidate drug as a member of a class of drugs having a characteristic effect on gene expression in a yeast cell comprising contacting a yeast cell with a candidate drug and monitoring expression in the yeast cell of at least 1 NORF gene whose expression is affected by the class of drugs. The NORF genes may be used to study, monitor and affect phases of the cell cycle, the differentially expressed genes may be used as markers of phases of the cell cycle. The methods may be used to identify candidate drugs which affect the cell cycle and for identification of antifungal drugs. AAF33268 to AAF44064 represent SAGE tags used in the exemplification of the present invention. AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE method, in the exemplification of the present invention.

Sequence 10 BP; 1 A; 3 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 21 AGTCCAGG 28  
DB 10 AGTCCAGG 3

RESULT 513  
ABK95857/C  
ID ABK95857 standard; DNA; 10 BP.  
XX ABK95857;  
AC ABK95857;  
XX 24-SEP-2002 (first entry)  
DT XX  
XX  
DE Solute Carrier Family 1 (SLC1A4) primer extension oligonucleotide #28.  
XX  
XX Solute carrier family 1; SLC1A4; haplotyping; human; cancer; primer;  
KW glutamate/neutral amino acid transporter; neurological disease; PCR; ss;  
KW amino acid transporter disorder; single nucleotide polymorphism; SNP.  
XX  
XX Homo sapiens.  
OS  
XX  
XX WO200244198-A2.  
PN  
XX  
XX 06-JUN-2002.  
PD  
XX  
XX 29-NOV-2001; 2001WO-US044781.  
PF  
XX  
XX 30-NOV-2000; 2000US-0250254P.  
PR  
XX  
XX (GENA-) GENAISSANCE PHARM INC.  
PA  
XX  
XX Blegiecki KM, Kazemi A, Russo DP, Sauser EA;  
PI WPI; 2002-519580/55.  
DR  
XX  
XX Novel genetic variants of Solute Carrier Family 1 (Glutamate/Neutral  
PT Amino Acid Transporter), Member 4 isogenes, for improving efficiency and

PT reliability in drug development for treating cancers.  
 XX Claim 17; Page 16; 139pp; English.  
 XX  
 CC The invention relates to an isolated polynucleotide (I) comprising a  
 CC first nucleotide sequence which comprises source carrier family 1  
 CC (glutamate/neutral amino acid transporter), member 4 (SLC1A4) isogenes  
 CC (II) and an isolated polypeptide (III) comprising an amino acid sequence  
 CC which is a polymorphic variant of a reference sequence for SLC1A4  
 CC protein. Also described are methods for: (1) haplotyping or genotyping  
 CC SLC1A4 gene of an individual; (2) predicting a haplotype pair for SLC1A4  
 CC gene of an individual; (3) identifying an association between a trait and  
 CC at least one haplotype or haplotype pair of SLC1A4 gene. (III) is useful  
 CC in screening for drugs targeting (III) that are useful for treating  
 CC cancer, neurological diseases and amino acid transporter disorders. The  
 CC methods are useful for improving the efficiency and reliability of  
 CC several steps in the discovery and development of drugs for treating  
 CC diseases associated with SLC1A4 activity. The haplotyping method is also  
 CC used by the pharmaceutical research scientist to validate SLC1A4 as a  
 CC candidate target for treating a specific condition or disease predicted  
 CC to be associated with SLC1A4 activity, e.g. cancer, neurological diseases  
 CC and amino acid transporter disorders, and in the design of clinical  
 CC trials for treating a specific condition of disease associated with  
 CC SLC1A4 activity. The methods are also useful for screening compounds  
 CC targeting SLC1A4. Anti-SLC1A4 antibody is useful in diagnostic,  
 CC prognostic and therapeutic methods. ABR95761-ABR95877 represent SLC1A4  
 CC gene allele-specific oligonucleotides, primer extension oligonucleotides  
 CC and related PCR primers used to identify single nucleotide polymorphisms  
 CC (SNP) of the gene  
 XX  
 SQ Sequence 10 BP; 0 A; 4 C; 1 G; 5 T; 0 U; 0 Other;  
 XX  
 QY Query Match 28.6%; Score 8; DB 1; Length 10;  
 Db Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 15 ACAGGAG 22  
 9 ACAGGAG 2

RESULT 514  
 ABL42870/c  
 ID ABL42870 standard; CDNA; 10 BP.  
 XX  
 AC ABL42870;  
 XX  
 DT 12-APR-2002 (first entry)  
 XX  
 DE Human maturation/activation dendritic cell expression gene tag #244.  
 KW Human; maturation/activation dendritic cell expression gene; tag;  
 KW maturation; activation; dendritic cell; ss.  
 OS Homo sapiens.  
 XX  
 JF2001327293-A.  
 XX  
 PD 27-NOV-2001.  
 XX  
 PF 22-MAY-2000; 2000JP-00150562.  
 XX  
 PR 22-MAY-2000; 2000JP-00150562.  
 XX  
 PA (KAGAKU GIUTSU SHINKO JIYODAN.  
 XX  
 WI; 2002-127070/17.  
 XX  
 DR Human maturation/activation dendritic cell expression gene group.  
 XX  
 PT Claim 19; Page 16; 41pp; Japanese.  
 XX  
 PS The present invention describes a human maturation/activation dendritic  
 CC

CC cell (DC) expression gene group consisting of 100 genes which show the  
 CC highest expression among the genes expressed in human maturation/  
 CC activation DC. Also described are: (1) a protein expressed by the above  
 CC human maturation/activation DC expression gene; (2) an antibody against  
 CC the protein; and (3) an antagonist against the expression of each gene  
 CC belonging to the above gene group. The gene group is useful for the  
 CC treatment and the diagnosis of various human diseases related to human  
 CC DC. ABL42827 to ABL42926 represent specifically claimed human  
 CC maturation/activation DC expression gene tags from the present invention  
 XX  
 SQ Sequence 10 BP; 2 A; 4 C; 1 G; 3 T; 0 U; 0 Other;  
 XX  
 QY Query Match 28.6%; Score 8; DB 1; Length 10;  
 Db Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 11 GTGTACAG 18  
 9 GTGTACAG 2

RESULT 515  
 ABR37012  
 ID ABR37012 standard; DNA; 10 BP.  
 XX  
 AC ABR37012;  
 XX  
 DT 08-MAY-2002 (first entry)  
 XX  
 DE Human ALAS2 gene allele-specific oligonucleotide PCR primer #11.  
 KW Human; aminolevulinate delta synthase 2; ALAS2; haplotyping; primer; ss;  
 KW haplotype pair; single nucleotide polymorphism; genotyping; antiaemic;  
 KW gene therapy; drug screening; X-linked sideroblastic anaemia; sequencing;  
 KW hypochromic anaemia; probe; PCR.  
 OS Homo sapiens.  
 XX  
 JF200210454-A2.  
 XX  
 PD 07-FEB-2002.  
 XX  
 PF 30-JUL-2001; 2001MO-US023914.  
 XX  
 PR 28-JUL-2000; 2000US-0221827P.  
 XX  
 PA (GENA-) GENAISSANCE PHARM INC.  
 XX  
 PI Choi JY, Koshy B, Klem S, Stephens JC;  
 XX  
 WI; 2002-188755/24.  
 XX  
 DR New isolated human aminolevulinate delta synthase 2 polynucleotide.  
 XX  
 PT useful for therapeutic purposes, for studying the expression and function  
 PT of the polynucleotide, and for expressing the aminolevulinate protein.  
 XX  
 JF2001327293-A.  
 XX  
 PD 27-NOV-2001.  
 XX  
 PF 22-MAY-2000; 2000JP-00150562.  
 XX  
 PR 22-MAY-2000; 2000JP-00150562.  
 XX  
 PA (KAGAKU GIUTSU SHINKO JIYODAN.  
 XX  
 WI; 2002-127070/17.  
 XX  
 DR Human maturation/activation dendritic cell expression gene group.  
 XX  
 PT Claim 19; Page 16; 41pp; Japanese.  
 XX  
 PS The present invention describes a human maturation/activation dendritic  
 CC

CC for candidate drugs to treat diseases related to ALAS2 activity, such as  
CC X-linked sideroblastic anaemia and hypochromic anaemia. The sequences are  
CC also useful for studying the effect of variation on the biological  
CC activity of ALAS2 as well as on the binding affinity of candidate drugs  
CC targeting ALAS2. Sequences ABK36963-ABK37027 represent allele-specific  
CC oligonucleotide probes, sequencing primers and PCR primers used to detect  
CC ALAS2 gene polymorphisms  
XX  
SQ Sequence 10 BP; 4 A; 2 C; 3 G; 1 T; 0 U; 0 Other;  
Query Match 28.6%; Score 8; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 21 AGTCGAG 28  
DB 2 AGTCGAG 9  
RESULT 516  
ABN80618/c  
ID ABN80618 standard; DNA; 10 BP.  
XX  
XX ABN80618;  
AC  
XX 19-JUL-2002 (first entry)  
DT  
XX Human P450(cytochrome) oxidoreductase A50 primer extension oligo #6.  
DE  
XX Human P450(cytochrome) oxidoreductase; POR; cancer; haplotype; SNP;  
KM single nucleotide polymorphism; flavoprotein; enzyme;  
KW primer extension oligonucleotide; ss.  
XX  
XX Homo sapiens.  
OS  
XX WO200226768-A2.  
FN  
XX 04-APR-2002.  
PD  
XX 01-OCT-2001; 2001WO-US030877.  
PF  
XX 29-SEP-2000; 2000US-0236449P.  
PR  
XX (GENA-) GENAISSANCE PHARM INC.  
PA  
XX Kazemi A, Kliehm SE, Lanz EM, Messer C, Tanguay DA;  
PI  
XX WPI; 2002-394236/42.  
DR  
XX New genetic variants comprising haplotypes of the P450 (cytochrome)  
PT oxidoreductase (POR) isogene, useful in improving the efficiency of drug  
PI screening protocols for compounds targeting POR.  
XX  
XX Claim 16; Page 15; 141BP; English.  
XX  
XX The present invention provides the protein, gene and cDNA sequences of  
CC human P450(cytochrome) oxidoreductase POR, and single nucleotide  
CC polymorphisms (SNPs) identified therein. The sequences can be used to  
CC haplotype the POR gene of an individual, and to establish whether POR is  
CC a suitable target for drugs to treat cancer and disorders associated with  
CC impaired protein synthesis in cells. The present sequence is an allele  
CC specific primer extension oligonucleotide for the coding sequences of the  
CC invention  
CC  
SQ Sequence 10 BP; 1 A; 6 C; 1 G; 2 T; 0 U; 0 Other;  
Query Match 28.6%; Score 8; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 16 CAGGAGCT 23  
DB 8 CAGGAGCT 1

RESULT 517  
ABV84803  
ID ABV84803 standard; cDNA; 10 BP.  
XX  
XX ABV84803;  
AC  
XX 12-DEC-2002 (first entry)  
DT  
XX Human S-protein/somatostatin B/vitronectin SAGE tag #613.  
DE  
XX SAGE tag; serial analysis of gene expression; human; chronic hepatitis C;  
KW CH; liver tissue; hepatocellular carcinoma; cancer; tumour; HCC;  
KW expression pattern; ss.  
XX  
XX Homo sapiens.  
OS  
XX JP2002209591-A.  
FN  
XX 30-JUL-2002.  
PD  
XX 19-JAN-2001; 2001JP-00012328.  
PF  
XX 19-JAN-2001; 2001JP-00012328.  
PR  
XX (KAGA-) KAGAKU GIUTSU SHINKO JIGYODAN.  
PA  
XX WPI; 2002-631294/68.  
DR  
XX Human chronic hepatitis C tissue expression exasperating gene group  
PT comprises 100 high-ranking genes.  
XX  
XX Claim 55; Page 28; 139BP; Japanese.  
XX  
XX The invention relates to SAGE (serial analysis of gene expression) tags  
CC representing groups of genes which are differentially expressed in human  
CC chronic hepatitis C (CH) liver tissue or hepatitis C-induced  
CC hepatocellular carcinoma (HCC) compared with normal human liver tissue.  
CC The SAGE tags of this invention consist of a sequence of 10 nucleotides  
CC located downstream of the 5'-CHTG-3' sequence motif lying nearest to the  
CC POLYA region of cDNAs derived from a variety of genes. These tags serve  
CC to uniquely identify each transcript and can thus be used to analyse the  
CC pattern of gene expression in particular cell types. The invention also  
CC relates to proteins encoded by the genes expressed in chronic hepatitis C  
CC liver tissue or HCC, antibodies against these proteins, and inhibitors of  
CC the expression of groups of genes that are overexpressed in chronic  
CC hepatitis C liver tissue or HCC. Groups of genes differentially expressed  
CC in chronic hepatitis C tissue or HCC may be used for the diagnosis and  
CC treatment of these diseases. Such genes, inhibitors of their expression  
CC or activity, and antibodies against the gene products may be used in the  
CC development of drugs to treat chronic hepatitis C and/or HCC. Sequences  
CC ABV84791-ABV84890 are SAGE tags representing 100 genes which are highly  
CC expressed in chronic hepatitis C liver tissue  
CC  
SQ Sequence 10 BP; 0 A; 5 C; 4 G; 1 T; 0 U; 0 Other;  
Query Match 28.6%; Score 8; DB 1; Length 10;  
Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
QY 1 CGGCGCCT 8  
DB 3 CGGCGCCT 10  
RESULT 518  
ABV84905  
ID ABV84905 standard; cDNA; 10 BP.  
XX  
XX ABV84905;  
AC  
XX 12-DEC-2002 (first entry)  
DT

XX DE Human S-protein/somatomedin B/vitronectin SAGE tag #715.  
 XX SAGE tag; serial analysis of gene expression; human; chronic hepatitis C;  
 KM CH; liver tissue; hepatocellular carcinoma; cancer; tumour; HCC;  
 KM expression pattern; ss.  
 XX Homo sapiens.  
 OS JP2002209591-A.  
 PN 30-JUL-2002.  
 PD 19-JAN-2001; 2001JP-00012328.  
 XX 19-JAN-2001; 2001JP-00012328.  
 PF 19-JAN-2001; 2001JP-00012328.  
 XX 19-JAN-2001; 2001JP-00012328.  
 PR (KAGA-) KAGAKU GIYUTSU SHINKO JIGYODAN.  
 PA WPI; 2002-631234/68.  
 XX Human chronic hepatitis C tissue expression exsperating gene group  
 PT comprises 100 high-ranking genes.  
 PS Claim 64; Page 30; 139pp; Japanese.  
 XX The invention relates to SAGE (serial analysis of gene expression) tags  
 CC representing groups of genes which are differentially expressed in human  
 CC chronic hepatitis C (CH) liver tissue or hepatitis C-induced  
 CC hepatocellular carcinoma (HCC) compared with normal human liver tissue.  
 CC The SAGE tags of this invention consist of a sequence of 10 nucleotides  
 CC located downstream of the 5'-CATG-3' sequence motif lying nearest to the  
 CC polyA region of cDNAs derived from a variety of genes. These tags serve  
 CC to uniquely identify each transcript and can thus be used to analyse the  
 CC pattern of gene expression in particular cell types. The invention also  
 CC relates to proteins encoded by the genes expressed in chronic hepatitis C  
 CC liver tissue or HCC, antibodies against these proteins, and inhibitors of  
 CC the expression of groups of genes that are overexpressed in chronic  
 CC hepatitis C liver tissue or HCC. Groups of genes differentially expressed  
 CC in chronic hepatitis C tissue or HCC may be used for the diagnosis and  
 CC treatment of these diseases. Such genes, inhibitors of their expression  
 CC or activity, and antibodies against the gene products may be used in the  
 CC development of drugs to treat chronic hepatitis C and/or HCC. Sequences  
 CC ABV84851-ABV8490 are SAGE tags representing 100 genes which are highly  
 CC expressed in hepatocellular carcinoma  
 CC  
 SQ Sequence 10 BP; 0 A; 5 C; 4 G; 1 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 CGGGCCCT 8  
 DB 3 CGGGCCCT 10  
 RESULT 519  
 ID ABK23745/C  
 AC ABK23745 standard; DNA; 10 BP.  
 XX ABK23745;  
 DT 09-APR-2002 (first entry)  
 XX Transcript tag DNA sequence #334 induced or suppressed by N-myc.  
 DE Myc-dependent downstream gene; neoplastic; cancer; growth; invasion;  
 KM spread; myc target; myc tag; SAGE; serial analysis of gene expression;  
 KM myc oncogene; N-myc; human neuroblastoma; cytostatic; ds.  
 XX Homo sapiens.  
 OS

PN WO200185941-A2.  
 XX 15-NOV-2001.  
 PD 11-MAY-2001; 2001WO-NL000361.  
 XX 11-MAY-2001; 2001WO-NL000361.  
 PF 11-MAY-2000; 2000EP-00201698.  
 XX 29-JUN-2000; 2000EP-00202284.  
 PR (UYAM-) UNIV AMSTERDAM ACAD ZIEKENHUIS BID VAN.  
 PA Verstee R, Caron HN;  
 PI WPI; 2002-066603/09.  
 DR A new nucleic acid library of myc-dependent downstream genes capable of  
 PT supporting a neoplastic characteristic of cancer is useful to find new  
 PT therapies and diagnoses for cancer.  
 XX Disclosure; Page 58; 69pp; English.  
 XX The present invention relates to a nucleic acid library comprising myc-  
 CC dependent downstream genes or their functional fragments essentially  
 CC capable of supporting a neoplastic character of cancer such as growth,  
 CC invasion or spread. These myc target or tag sequences are identified by  
 CC SAGE (serial analysis of gene expression) The library is useful to find  
 CC new diagnoses and treatments for cancer. The invention is also useful to  
 CC enhance production of recombinant proteins in a production system with  
 CC high expression of endogenous or transfected myc oncogenes. ABR23412-  
 CC ABR23488 represent transcript tag DNA sequences that are activated or  
 CC repressed by N-myc in human neuroblastoma  
 CC  
 SQ Sequence 10 BP; 2 A; 2 C; 3 G; 3 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 9 ACGGTAC 16  
 DB 10 ACGGTAC 3  
 RESULT 520  
 ID AAS16755 standard; DNA; 10 BP.  
 AC AAS16755;  
 DT 14-FEB-2002 (first entry)  
 XX Human APOA4 ASO, primer extension primer #8 terminal sequence.  
 DE Human; ss; APOA4; apolipoprotein A-IV; atherosclerotic; cardiant;  
 KM haplotype; chromosome 11q23-qter; coronary heart disease; obesity;  
 KM atherosclerosis; PCR primer; primer extension.  
 XX Homo sapiens.  
 OS WO200177124-A2.  
 PN 18-OCT-2001.  
 PD 03-APR-2001; 2001WO-US010670.  
 XX 05-APR-2000; 2000US-0194362P.  
 PR (GENA-) GENAISANCE PHARM INC.  
 PA Bentivegna SC, Choi JV, Kilem SE, Koshy B;  
 PI WPI; 2002-041281/05.  
 XX

PT New haplotypes of the human apolipoprotein A-IV gene, useful to diagnose  
 CC and treat disorders associated with its abnormal expression or function  
 PT such as coronary artery disease.  
 PS  
 XX Claim 17, Page 15, 71pp; English.  
 CC  
 XX The invention relates to haplotyping the human apolipoprotein A-IV  
 CC (APOA4) gene of an individual, comprising determining if the individual  
 CC has one of the APOA4 haplotypes or haplotype pairs fully defined in the  
 CC specification. Also disclosed are genotyping oligonucleotides (or allele  
 CC specific oligonucleotides, ASO) as well as methods for correlating a  
 CC particular haplotype pair with a trait e.g., obesity, in a population. The  
 CC APOA4 gene is located on chromosome 11q23-qter. The methods of the  
 CC invention are useful to diagnose and develop treatment for disorders  
 CC associated with abnormal APOA4 expression or function, for example  
 CC coronary heart disease and atherosclerosis. The APOA4 isoforms and  
 CC screened compounds are useful for the treatment of disorders associated  
 CC with abnormal APOA4 expression or function such as coronary artery  
 CC disease. The present sequence is the terminus of an APOA4 allele specific  
 CC oligonucleotide, ASO, primer extension PCR primer used to detect an APOA4  
 CC polymorphism  
 CC  
 SQ Sequence 10 BP; 1 A; 5 C; 3 G; 1 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 1 CGGAGCCT 8  
 DB 1 CGGAGCCT 8  
 RESULT 521  
 AAS16821/c  
 ID AAS16821 standard; DNA; 10 BP.  
 XX AAS16821;  
 XX  
 DT 14-FEB-2002 (first entry)  
 DE Human apolipoprotein C1 (APOC1) gene PCR primer #7.  
 XX  
 KW Human; apolipoprotein C1; APOC1; single nucleotide polymorphism;  
 KW haplotyping; haplotype pair; hypercholesterolemia; nocturnal; SDAT; ss;  
 KW senile dementia of Alzheimer's type; neuroprotective; antiplatelet;  
 KW PCR primer.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177129-A2;  
 XX  
 PD 18-OCT-2001.  
 XX  
 PR 10-APR-2001; 2001WO-US011808.  
 XX  
 PF 11-APR-2000; 2000US-0196545P.  
 XX  
 PA (GENA-) GENAISSANCE PHARM INC.  
 XX  
 PI Bentivegna SC, Chew A, Choi JY, Koshy B, Stephens JC;  
 XX  
 DR WPI; 2002-041286/05.  
 CC  
 PT New haplotypes of the human apolipoprotein C1 gene, useful to detect and  
 CC find treatment for disease associated with its activity such as  
 PT hypercholesterolemia and Alzheimer's disease.  
 XX  
 PS Claim 18; Page 13; 51pp; English.  
 CC  
 CC The invention relates to single nucleotide polymorphisms in the human  
 CC apolipoprotein C1 (APOC1) gene. Haplotyping the APOC1 gene of an  
 CC individual, comprises determining if the individual has one of the APOC1

CC haplotypes or haplotype pairs fully defined in the specification.  
 CC Genotyping the APOC1 gene of an individual, comprises determining the  
 CC identity of the nucleotide pair at one or more polymorphic sites and  
 CC predicting a haplotype pair for the APOC1 gene of an individual by  
 CC enumerating all possible haplotype pairs which are consistent with the  
 CC genotype, comparing the possible haplotype pairs to the data detailed in  
 CC the specification and assigning a haplotype pair to the individual that  
 CC is consistent with the data. Identifying an association between a trait  
 CC and a haplotype or haplotype pair of the APOC1 gene, comprises comparing  
 CC the frequency of the haplotype/haplotype pair in a population exhibiting  
 CC the trait with that of a reference population, where the  
 CC haplotype/haplotype pair is one described in the specification and a  
 CC higher frequency in the trait population indicates the trait is  
 CC associated with the haplotype. The sequences and methods of the invention  
 CC are used to diagnose and develop treatment for disease associated with  
 CC APOC1 activity, such as hypercholesterolemia and senile dementia of  
 CC Alzheimer's type (SDAT). This sequence represents a PCR primer used for  
 CC detecting human APOC1 DNA polymorphisms  
 CC  
 SQ Sequence 10 BP; 2 A; 4 C; 3 G; 1 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 18 GGGAGTCC 25  
 DB 10 GGGAGTCC 3  
 RESULT 522  
 AAS95473  
 ID AAS95473 standard; DNA; 10 BP.  
 XX AAS95473;  
 XX  
 DT 14-FEB-2002 (first entry)  
 DE Interleukin 5 (IL5) allele-specific oligonucleotide #31.  
 XX  
 KW Human; allele-specific oligonucleotide; ASO; interleukin 5; IL5;  
 KW antiinflammatory; antisthmatic; haplotyping; inflammatory disorder;  
 KW asthma; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177132-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PR 11-APR-2001; 2001WO-US012011.  
 XX  
 PF 11-APR-2000; 2000US-0196250P.  
 XX  
 PA (GENA-) GENAISSANCE PHARM INC.  
 XX  
 PI Bentivegna SC, Chew A, Choi JY, Denton RR, Kazemi A;  
 XX  
 DR Nandabalan K, Parks KE;  
 XX  
 DR WPI; 2002-041289/05.  
 CC  
 PT New haplotypes of the human interleukin 5 gene, useful to diagnose and  
 CC treat diseases associated with the gene including inflammatory disorders  
 PT such as asthma.  
 XX  
 PS Claim 17; Page 13; 65pp; English.  
 CC  
 CC The invention relates to haplotyping the human interleukin 5 (IL5) gene  
 CC of an individual, comprising determining if the individual has one of the  
 CC IL5 haplotypes or haplotype pairs fully defined in the specification.  
 CC Haplotyping the IL5 gene of an individual, comprises determining the  
 CC identity of the nucleotide at two or more polymorphic sites in one copy  
 CC of the gene. The method also involves identifying an association between

CC a trait and a haplotype or haplotype pair of the IL5 gene, comprising  
 CC comparing the frequency of the haplotype/pair in a population exhibiting  
 CC the trait with that of a reference population. A higher frequency in the  
 CC trait population indicates the trait is associated with the haplotype.  
 CC The polymorphisms and associated compounds are useful to develop  
 CC treatment for diseases associated with IL-5 activity including  
 CC inflammatory disorders such as asthma. AAS95443-AAS95489 represent IL5  
 CC allele-specific oligonucleotides (ASO) and PCR primers of the invention  
 XX  
 SQ Sequence 10 BP; 4 A; 2 C; 3 G; 1 T; 0 U; 0 Other;  
 QY Query Match 28.6%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 DB 1 AGTCCAGG 8  
 QY 21 AGTCCAGG 28  
 DB 1 AGTCCAGG 8  
 RESULT 523  
 AAS99418  
 ID AAS99418 standard; DNA; 10 BP.  
 XX  
 AC AAS99418;  
 XX  
 DT 12-MAR-2002 (first entry)  
 XX  
 DE Aldehyde dehydrogenase 5 family, member A1, oligonucleotide #11.  
 XX  
 KW Aldehyde dehydrogenase 5 family member A1; ALDH5A1;  
 KW succinate-semialdehyde dehydrogenase; gene therapy; primer;  
 KM antisense technology; primer extension oligonucleotide;  
 KM 4-hydroxybutyric aciduria; metabolic disease; transgenic animal; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN WO200190119-A2.  
 XX  
 PD 29-NOV-2001.  
 XX  
 PF 21-MAY-2001; 2001WO-US016558.  
 XX  
 PR 19-MAY-2000; 2000US-0205849P.  
 XX  
 PA (GENA-) GENAISSANCE PHARM INC.  
 XX  
 PI Klien SE, Koshy B, Tanguay DA;  
 XX  
 DR WPI; 2002-089912/12.  
 XX  
 PT New genetic variants of human aldehyde dehydrogenase 5 family, member A1,  
 PT ALDH5A1 gene for treating metabolic diseases and for expressing ALDH5A1  
 PT protein useful in identifying drugs to treat 4-hydroxybutyric aciduria.  
 XX  
 PS Claim 18; Page 15; 15pp; English.  
 XX  
 CC The invention describes an isolated polynucleotide comprising a  
 CC nucleotide sequence which is a polymorphic variant of a reference  
 CC sequence for the aldehyde dehydrogenase 5 family, member A1 (succinate-  
 CC semialdehyde dehydrogenase) (ALDH5A1) gene or its fragment. The  
 CC polypeptide is useful for screening for drugs targeting it by contacting  
 CC the ALDH5A1 polymorphic variant with a candidate agent and assaying for  
 CC binding activity. The polypeptide and haplotypes are useful for  
 CC identifying an association between a trait such as a clinical response to  
 CC a drug targeting ALDH5A1 and a haplotype ALDH5A1 gene. Transgenic animals  
 CC are also useful for studying expression of the ALDH5A1 isogenes in vivo,  
 CC for in vivo screening and testing of drugs against ALDH5A1 protein and  
 CC for testing the efficacy of therapeutic agents and compounds for 4-  
 CC hydroxybutyric aciduria and metabolic diseases in a biological system.  
 CC Antibodies are useful for diagnostic and prognostic formats and  
 CC therapeutic methods, for immunoprecipitating the polypeptide from  
 CC solution, for detecting ALDH5A1 protein isoforms in biological samples,

CC frozen tissue sections, for use in immunocytochemical,  
 CC immunohistochemical and immunofluorescence techniques. The polynucleotide  
 CC is useful for gene therapy and antisense gene therapy. This sequence is a  
 CC primer extension oligonucleotide used to detect polymorphisms in the  
 CC ALDH5A1 gene described in the method of the invention  
 XX  
 SQ Sequence 10 BP; 4 A; 1 C; 5 G; 0 T; 0 U; 0 Other;  
 QY Query Match 28.6%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 2.4e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 DB 15 ACAGGAG 22  
 DB 1 ACAGGAG 8  
 RESULT 524  
 AAD51664/c  
 ID AAD51664 standard; DNA; 10 BP.  
 XX  
 AC AAD51664;  
 XX  
 DT 16-APR-2003 (first entry)  
 XX  
 DE Human CYP2E gene polymorphism detecting primer #13.  
 XX  
 KW Human; cytochrome P450 subfamily IIE; CYP2E protein; haplotyping;  
 KW genotyping; gene therapy; cancer; polymorphism; primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO00290597-A1.  
 XX  
 PD 14-NOV-2002.  
 XX  
 PF 07-MAY-2002; 2002WO-US014540.  
 XX  
 PR 07-MAY-2001; 2001US-0289330P.  
 XX  
 PA (GENA-) GENAISSANCE PHARM INC.  
 XX  
 PI Anastasio AE, Chew A, Gilson CR, Koshy B, Sausker EA;  
 XX  
 DR WPI; 2003-120563/11.  
 XX  
 PT New genetic variants comprising haplotypes of the cytochrome P450,  
 PT subfamily IIE (CYP2E) gene, useful for screening drugs for treating  
 PT cancer, validating CYP2E protein as a drug target, or reducing bias in  
 PT clinical trials of such drugs.  
 XX  
 PS Claim 39; Page 16; 94pp; English.  
 XX  
 CC The invention relates to genetic variants of human cytochrome P450,  
 CC subfamily IIE (CYP2E) gene. The invention also relates to compositions  
 CC and methods for haplotyping and/or genotyping the CYP2E gene in an  
 CC individual. The polynucleotide comprising polymorphisms in the CYP2E gene  
 CC are useful in screening candidate drugs to treat diseases related to  
 CC CYP2E activity, e.g. cancer. The methods and haplotypes are useful in  
 CC improving the efficiency of drug discovery and development processes, or  
 CC for designing clinical trials of candidate drugs for treating the  
 CC specific condition or disease. The polymorphisms and haplotypes of CYP2E  
 CC gene are useful for validating whether CYP2E is a suitable target for  
 CC drugs to treat cancer and disorders associated with impaired protein  
 CC synthesis in cells, screening for drugs and reducing bias in clinical  
 CC trials of the drugs. The invention is also useful in gene therapy. The  
 CC present sequence is a primer used to detect human CYP2E gene  
 CC polymorphisms  
 XX  
 SQ Sequence 10 BP; 1 A; 3 C; 2 G; 4 T; 0 U; 0 Other;  
 QY Query Match 28.6%; Score 8; DB 1; Length 10;  
 Best Local Similarity 100.0%; Pred. No. 2.4e+02;



Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GAGTCCAG 27  
 DB 9 GAGTCCAG 2

## RESULT 525

AAA74982/C  
 ID AAA74982 standard; DNA, 11 BP.

AC AAA74982;

DT 02-JAN-2001 (first entry)

DE Nucleotide sequence of a copy of a polymerase template.

KM Morpholine nucleotide analogue; DNA labelling; chain terminator;  
 KW nucleic acid sequencing; ss.

OS Synthetic.

PN FR2790005-A1.

PD 25-AUG-2000.

PF 27-SEP-1999; 99FR-00012001.

PR 22-FEB-1999; 99FR-00002170.

PA (COMS ) COMMISSARIAT ENERGIE ATOMIQUE.

PI Marciaq F, Sauvaigo S, Mouret JF, Issartel JP, Molko D;

DR WPI; 2000-589230/56.

PT Use of new and known morpholine nucleotide analogs for labeling nucleic  
 acid fragments, especially for nucleic acid sequencing.

PS Disclosure; Page 5; 68pp; French.

CC The specification describes morpholine nucleotide analogue, which are  
 used for labelling DNA or RNA fragments. The morpholine nucleotide  
 analogues are useful as chain terminators for the enzymatic synthesis of  
 3'-labeled complementary strands during nucleic acid sequencing. The  
 present sequence represents a copy of the polymerase template (given in  
 CC AAA74965), which is produced the method of the invention

CC Sequence 11 BP; 3 A; 2 C; 3 G; 2 T; 0 U; 1 Other;

QY Query Match 28.6%; Score 8; DB 1; Length 11;

Best Local Similarity 80.0%; Pred.No.2.7e+02;

Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;

QY 3 GGCCCTACGT 12  
 DB 11 GGCCCTACGT 2

## RESULT 526

AAA74965/C  
 ID AAA74965 standard; DNA, 11 BP.

AC AAA74965;

DT 23-FEB-2000 (first entry)

DE Mutant tat HIV retroviral vectors constructing PCR mutagenesis primer.

KM HIV; 293 cell line; TAR mutant virus; transactivator protein; TAR virus;  
 KW mutation; Tat protein; viral regulatory protein; vaccine; mutagenesis;

PC primer; ss.

OS Synthetic.  
 OS Human immunodeficiency virus 1.

PN US5994108-A.

PD 30-NOV-1999.

PF 05-AUG-1994; 94US-00286874.

PR 05-NOV-1991; 91US-00788266.

PR 02-JUL-1992; 92US-00910867.

PA (TEXA ) UNIT TEXAS SYSTEM.

PI Gaynor RB, Harrich D;

DR WPI; 2000-052344/04.

PT 293 cell line for producing wild-type levels of HIV TAR mutant virus.

PS Example 11; Col 36; 61pp; English.

CC The invention provides a 293 cell line that produces wild-type levels of  
 HIV TAR mutant virus in the presence of a transactivator protein, the  
 cell line being infected with a mutant HIV TAR virus having a mutation in  
 the loop sequence on the bulge sequence. The cell line is useful for  
 CC producing wild-type levels of HIV TAR mutant virus which encode mutant  
 CC Tat proteins (viral regulatory proteins) which are capable of inhibiting  
 CC the expression of the HIV-1 virus in the presence of an equimolar  
 CC concentration of the wild-type Tat protein. Sequences AA239364-67  
 CC represent PCR mutagenesis primers used in the construction of mutant tat  
 CC HIV retroviral vectors

CC Sequence 11 BP; 3 A; 3 C; 4 G; 1 T; 0 U; 0 Other;

QY Query Match 28.6%; Score 8; DB 1; Length 11;

Best Local Similarity 100.0%; Pred.No.2.7e+02;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GGCCCTCA 9  
 DB 1 GGCCCTCA 8

## RESULT 527

AAA74965/C  
 ID AAA74965 standard; DNA, 11 BP.

AC AAA74965;

DT 02-JAN-2001 (first entry)

DE Nucleotide sequence of a copy of a polymerase template.

KM Morpholine nucleotide analogue; DNA labelling; chain terminator;  
 KW nucleic acid sequencing; ss.

OS Synthetic.

PN FR2790004-A1.

PD 25-AUG-2000.

PF 22-FEB-1999; 99FR-00002170.

PR 22-FEB-1999; 99FR-00002170.

PA (COMS ) COMMISSARIAT ENERGIE ATOMIQUE.

PI Marciaq F, Sauvaigo S, Mouret JF, Issartel JP, Molko D;

DR WPI; 2000-589229/56.

PT Use of new and known morpholine nucleotide analogs for labeling nucleic  
 PT acid fragments, especially for nucleic acid sequencing.  
 XX  
 PS Disclosure; Page 5; 51pp; French.  
 XX  
 CC The specification describes morpholine nucleotide analogue, which are  
 CC used for labelling DNA or RNA fragments. The morpholine nucleotide  
 CC analogues are useful as chain terminators for the enzymatic synthesis of  
 CC 3'-labelled complementary strands during nucleic acid sequencing. The  
 CC present sequence represents a copy of the polymerase template (given in  
 CC AA474965), which is produced the method of the invention.  
 XX  
 SQ Sequence 11 BP; 3 A; 2 C; 3 G; 2 T; 0 U; 1 Other;  
 QY Query Match 28.6%; Score 8; DB 1; Length 11;  
 Db Best Local Similarity 80.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 QY 3 GGCCCTACGT 12  
 Db 11 GGCCCTACGT 2  
 RESULT 528  
 ABQ87185  
 ID ABQ87185 standard; cDNA; 11 BP.  
 AC  
 AC ABQ87185;  
 XX  
 XX 10-SEP-2002 (first entry)  
 DE Human skin stress/ageing related EST SEQ ID NO 940.  
 XX  
 KM Human; skin ageing; skin stress; EST; expressed sequence tag; ss.  
 OS  
 OS Homo sapiens.  
 PN WO200253773-A2.  
 XX  
 PD 11-JUL-2002.  
 PF 20-DEC-2001; 2001MO-EP015178.  
 XX  
 XX 03-JAN-2001; 2001DE-01000121.  
 PR  
 PA (HENKEL ) HENKEL KGAA.  
 XX  
 PI Petersohn D, Conradt M, Hofmann K;  
 DR WPI; 2002-528865/56.  
 XX  
 PT Identifying genes involved in skin stress and aging; useful e.g. in  
 PT screening for cosmetic or therapeutic agents, based on differential gene  
 PT expression.  
 XX  
 PS Claim 8; Page 76; 325pp; German.  
 CC The invention relates to identifying (M1) genes in vitro that, in humans  
 CC or animals, are important for skin ageing and/or skin stress by serial  
 CC analysis of gene expression between mixtures of transcribed and  
 CC optionally translated, genetically encoded factors (A) obtained from  
 CC young and aged skin, to identify that genes that show strong differential  
 CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is  
 CC useful for: identifying markers of skin ageing and/or stress; determining  
 CC skin ageing and/or stress; and identifying or determining the effects of  
 CC pharmaceutical or cosmetic agents for control of skin ageing. The present  
 CC sequence is one of a group of human skin ageing/stress related expressed  
 CC sequence tags (ABQ86246-ABQ87680) of the invention  
 XX  
 SQ Sequence 11 BP; 1 A; 2 C; 5 G; 3 T; 0 U; 0 Other;  
 QY Query Match 28.6%; Score 8; DB 1; Length 11;  
 Db Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 1; Mismatches 1; Indels 0; Gaps 0;  
 QY 3 GGCCCTACGT 12  
 Db 11 GGCCCTACGT 2

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 18 GGAGTCC 25  
 Db 4 GGAGTCC 11  
 RESULT 529  
 ABQ87673  
 ID ABQ87673 standard; cDNA; 11 BP.  
 AC  
 AC ABQ87673;  
 XX  
 XX 10-SEP-2002 (first entry)  
 DE Human skin stress/ageing related EST SEQ ID NO 1428.  
 XX  
 KM Human; skin ageing; skin stress; EST; expressed sequence tag; ss.  
 OS  
 OS Homo sapiens.  
 PN WO200253773-A2.  
 XX  
 PD 11-JUL-2002.  
 PF 20-DEC-2001; 2001MO-EP015178.  
 XX  
 XX 03-JAN-2001; 2001DE-01000121.  
 PR  
 PA (HENKEL ) HENKEL KGAA.  
 XX  
 PI Petersohn D, Conradt M, Hofmann K;  
 DR WPI; 2002-528865/56.  
 XX  
 PT Identifying genes involved in skin stress and aging; useful e.g. in  
 PT screening for cosmetic or therapeutic agents, based on differential gene  
 PT expression.  
 XX  
 PS Claim 8; Page 98; 325pp; German.  
 CC The invention relates to identifying (M1) genes in vitro that, in humans  
 CC or animals, are important for skin ageing and/or skin stress by serial  
 CC analysis of gene expression between mixtures of transcribed and  
 CC optionally translated, genetically encoded factors (A) obtained from  
 CC young and aged skin, to identify that genes that show strong differential  
 CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is  
 CC useful for: identifying markers of skin ageing and/or stress; determining  
 CC skin ageing and/or stress; and identifying or determining the effects of  
 CC pharmaceutical or cosmetic agents for control of skin ageing. The present  
 CC sequence is one of a group of human skin ageing/stress related expressed  
 CC sequence tags (ABQ86246-ABQ87680) of the invention  
 XX  
 SQ Sequence 11 BP; 3 A; 2 C; 4 G; 2 T; 0 U; 0 Other;  
 QY Query Match 28.6%; Score 8; DB 1; Length 11;  
 Db Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 19 GGAGTCCA 26  
 Db 3 GGAGTCCA 10  
 RESULT 530  
 ABQ86610  
 ID ABQ86610 standard; cDNA; 11 BP.  
 AC  
 AC ABQ86610;  
 XX  
 XX 10-SEP-2002 (first entry)  
 DE Human skin stress/ageing related EST SEQ ID NO 365.

XX Human; skin ageing; skin stress; EST; expressed sequence tag; ss.  
 KM Homo sapiens.  
 XX WO200253773-A2.  
 XX 11-JUL-2002.  
 XX 20-DEC-2001; 2001WO-EP015178.  
 XX 03-JAN-2001; 2001DE-01000121.  
 XX (HENK ) HENKEL KGAA.  
 XX Petersohn D, Conradt M, Hofmann K;  
 XX WPI; 2002-528865/56.  
 XX Identifying genes involved in skin stress and aging, useful e.g. in  
 PT screening for cosmetic or therapeutic agents, based on differential gene  
 PT expression.  
 XX Claim 8; Page 51; 325pp; German.  
 XX The invention relates to identifying (M1) genes in vitro that, in humans  
 CC or animals, are important for skin ageing and/or skin stress by serial  
 CC analysis of gene expression between mixtures of transcribed and  
 CC optionally translated, genetically encoded factors (A) obtained from  
 CC young and aged skin, to identify that genes that show strong differential  
 CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is  
 CC useful for: identifying markers of skin ageing and/or stress; determining  
 CC skin ageing and/or stress; and identifying or determining the effects of  
 CC pharmaceutical or cosmetic agents for control of skin ageing. The present  
 CC sequence is one of a group of human skin ageing/stress related expressed  
 CC sequence tags (ABQ86246-ABQ87680) of the invention  
 XX Sequence 11 BP; 2 A; 3 C; 3 G; 3 T; 0 U; 0 Other;  
 SQ  
 Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 19 GGAGTCGA 26  
 DB 2 GGAGTCGA 9  
 RESULT 531  
 ABQ86755/C  
 ID ABQ86755 standard; cDNA; 11 BP.  
 XX ABQ86755;  
 AC 10-SEP-2002 (first entry)  
 XX 10-SEP-2002 (first entry)  
 XX Human skin stress/ageing related EST SEQ ID NO 510.  
 XX Human; skin ageing; skin stress; EST; expressed sequence tag; ss.  
 KM Homo sapiens.  
 XX WO200253773-A2.  
 XX 11-JUL-2002.  
 XX 20-DEC-2001; 2001WO-EP015178.  
 XX 03-JAN-2001; 2001DE-01000121.  
 XX (HENK ) HENKEL KGAA.  
 XX Petersohn D, Conradt M, Hofmann K;  
 XX WPI; 2002-528865/56.  
 XX Identifying genes involved in skin stress and aging, useful e.g. in  
 PT screening for cosmetic or therapeutic agents, based on differential gene  
 PT expression.  
 XX Claim 8; Page 51; 325pp; German.  
 XX The invention relates to identifying (M1) genes in vitro that, in humans  
 CC or animals, are important for skin ageing and/or skin stress by serial  
 CC analysis of gene expression between mixtures of transcribed and  
 CC optionally translated, genetically encoded factors (A) obtained from  
 CC young and aged skin, to identify that genes that show strong differential  
 CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is  
 CC useful for: identifying markers of skin ageing and/or stress; determining  
 CC skin ageing and/or stress; and identifying or determining the effects of  
 CC pharmaceutical or cosmetic agents for control of skin ageing. The present  
 CC sequence is one of a group of human skin ageing/stress related expressed  
 CC sequence tags (ABQ86246-ABQ87680) of the invention  
 XX Sequence 11 BP; 2 A; 3 C; 3 G; 3 T; 0 U; 0 Other;  
 SQ

XX WPI; 2002-528865/56.  
 DR Identifying genes involved in skin stress and aging, useful e.g. in  
 XX screening for cosmetic or therapeutic agents, based on differential gene  
 PT expression.  
 XX Claim 8; Page 58; 325pp; German.  
 XX The invention relates to identifying (M1) genes in vitro that, in humans  
 CC or animals, are important for skin ageing and/or skin stress by serial  
 CC analysis of gene expression between mixtures of transcribed and  
 CC optionally translated, genetically encoded factors (A) obtained from  
 CC young and aged skin, to identify that genes that show strong differential  
 CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is  
 CC useful for: identifying markers of skin ageing and/or stress; determining  
 CC skin ageing and/or stress; and identifying or determining the effects of  
 CC pharmaceutical or cosmetic agents for control of skin ageing. The present  
 CC sequence is one of a group of human skin ageing/stress related expressed  
 CC sequence tags (ABQ86246-ABQ87680) of the invention  
 XX Sequence 11 BP; 2 A; 5 C; 2 G; 2 T; 0 U; 0 Other;  
 SQ  
 Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 20 GGATCCAG 27  
 DB 11 GGATCCAG 4  
 RESULT 532  
 ABQ86291/C  
 ID ABQ86291 standard; cDNA; 11 BP.  
 XX ABQ86291;  
 AC 10-SEP-2002 (first entry)  
 XX 10-SEP-2002 (first entry)  
 XX Human skin stress/ageing related EST SEQ ID NO 46.  
 XX Human; skin ageing; skin stress; EST; expressed sequence tag; ss.  
 KM Homo sapiens.  
 XX WO200253773-A2.  
 XX 11-JUL-2002.  
 XX 20-DEC-2001; 2001WO-EP015178.  
 XX 03-JAN-2001; 2001DE-01000121.  
 XX (HENK ) HENKEL KGAA.  
 XX Petersohn D, Conradt M, Hofmann K;  
 XX WPI; 2002-528865/56.  
 XX Identifying genes involved in skin stress and aging, useful e.g. in  
 PT screening for cosmetic or therapeutic agents, based on differential gene  
 PT expression.  
 XX Claim 8; Page 39; 325pp; German.  
 XX The invention relates to identifying (M1) genes in vitro that, in humans  
 CC or animals, are important for skin ageing and/or skin stress by serial  
 CC analysis of gene expression between mixtures of transcribed and  
 CC optionally translated, genetically encoded factors (A) obtained from  
 CC young and aged skin, to identify that genes that show strong differential  
 CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is  
 CC useful for: identifying markers of skin ageing and/or stress; determining

CC skin ageing and/or stress; and identifying or determining the effects of  
 CC pharmaceutical or cosmetic agents for control of skin ageing. The present  
 CC sequence is one of a group of human skin ageing/stress related expressed  
 CC sequence tags (ABQ86246-ABQ87680) of the invention  
 XX

SQ Sequence 11 BP; 2 A; 3 C; 4 G; 2 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 21 AGTCCAG 28  
 |||||  
 10 AGTCCAG 3

RESULT 533  
 ABV68516/c  
 ID ABV68516 standard; cDNA; 11 BP.

AC ABV68516;  
 XX  
 DT 21-OCT-2002 (first entry)  
 XX

DE Human skin EST 6302.  
 XX  
 XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;  
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;  
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

OS Homo sapiens.  
 XX  
 XX WO200253774-A2.  
 XX

PD 11-JUL-2002.  
 XX  
 XX 20-DEC-2001; 2001WO-EP015179.  
 XX

PR 03-JAN-2001; 2001DE-01000127.  
 XX  
 XX (HENK) HENKEL KGAA.  
 XX

PI Petersohn D, Conradt M, Hofmann K;  
 XX  
 XX WPI; 2002-590638/63.  
 XX

DR In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.  
 XX

PS Disclosure; Page 200; 1345bp; German.  
 XX

CC The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 XX

SQ Sequence 11 BP; 2 A; 4 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 ACAGGAG 22  
 |||||

Db 11 ACAGGAG 4

RESULT 534  
 ABV68894  
 ID ABV68894 standard; cDNA; 11 BP.

AC ABV68894;  
 XX  
 DT 21-OCT-2002 (first entry)  
 XX

DE Human skin EST 6680.  
 XX

KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;  
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;  
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

OS Homo sapiens.  
 XX  
 XX WO200253774-A2.  
 XX

PD 11-JUL-2002.  
 XX

PF 20-DEC-2001; 2001WO-EP015179.  
 XX

PR 03-JAN-2001; 2001DE-01000127.  
 XX

PA (HENK) HENKEL KGAA.  
 XX

PI Petersohn D, Conradt M, Hofmann K;  
 XX

DR WPI; 2002-590638/63.  
 XX

PT In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.  
 XX

PS Disclosure; Page 211; 1345bp; German.  
 XX

CC The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 XX

SQ Sequence 11 BP; 2 A; 3 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 19 GGAATCCA 26  
 |||||  
 2 GGAATCCA 9

RESULT 535

ABV70231/c  
 ID ABV70231 standard; cDNA; 11 BP.

AC ABV70231;  
 XX

DT 21-OCT-2002 (first entry)  
 XX

DE Human skin EST 8017.  
 XX

KM Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;  
 KM immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;  
 KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
 OS Homo sapiens.  
 PN WO200253774-A2.  
 XX 11-JUL-2002.  
 PD 20-DEC-2001; 2001WO-EP015179.  
 PF 03-JAN-2001; 2001DE-01000127.  
 PR (HENK ) HENKEL KGAA.  
 PA Petersohn D, Conrad M, Hofmann K;  
 PI Petersohn D, Conrad M, Hofmann K;  
 XX WPI; 2002-590638/63.  
 DR In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.  
 PS Claim 24; Page 255; 1345pp; German.  
 XX The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 CC  
 SQ Sequence 11 BP; 1 A; 4 C; 2 G; 4 T; 0 U; 0 Other;  
 QY Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 DB 21 AGTCCAGG 28  
 11 AGTCCAGG 4  
 DE Human skin EST 9600.  
 XX  
 XX Homo sapiens.  
 OS  
 PN WO200253774-A2.  
 XX 11-JUL-2002.  
 PD 20-DEC-2001; 2001WO-EP015179.  
 PF 03-JAN-2001; 2001DE-01000127.  
 PR

XX (HENK ) HENKEL KGAA.  
 PA Petersohn D, Conrad M, Hofmann K;  
 XX WPI; 2002-590638/63.  
 DR In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.  
 PS Claim 24; Page 310; 1345pp; German.  
 XX The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 CC  
 SQ Sequence 11 BP; 2 A; 5 C; 2 G; 2 T; 0 U; 0 Other;  
 QY Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 DB 20 GAGTCCAG 27  
 11 GAGTCCAG 4  
 DE Human skin EST 101.  
 XX  
 XX Homo sapiens.  
 OS  
 PN WO200253774-A2.  
 XX 11-JUL-2002.  
 PD 20-DEC-2001; 2001WO-EP015179.  
 PF 03-JAN-2001; 2001DE-01000127.  
 PR (HENK ) HENKEL KGAA.  
 PA Petersohn D, Conrad M, Hofmann K;  
 PI Petersohn D, Conrad M, Hofmann K;  
 XX WPI; 2002-590638/63.  
 DR In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.  
 PS Disclosure; Page 28; 1345pp; German.

CC The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 CC  
 XX Sequence 11 BP; 4 A; 2 C; 5 G; 0 T; 0 U; 0 Other;  
 SQ  
 Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 15 ACAGGAG 22  
 |||||  
 DB 2 ACAGGAG 9  
 |||||  
 RESULT 538  
 ABV67037/C  
 ID ABV67037 standard; cDNA; 11 BP.  
 XX  
 AC ABV67037;  
 XX  
 DT 21-OCT-2002 (first entry)  
 XX  
 DE Human skin EST 4823.  
 XX  
 KM Human; skin; dermatological; vulnery; antipsoriatic; antiseborrheic;  
 KM immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;  
 KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200253774-A2.  
 XX  
 PD 11-JUL-2002.  
 XX  
 PF 20-DEC-2001; 2001WO-BP015179.  
 XX  
 PR 03-JAN-2001; 2001DE-01000127.  
 XX  
 PA (HENKEL) HENKEL KGAA.  
 XX  
 PI Petersohn D, Conradt M, Hofmann K;  
 XX  
 DR WPI; 2002-590638/63.  
 XX  
 PT In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.  
 XX  
 PS Disclosure; Page 158; 1345pp; German.  
 XX  
 CC The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 CC

SQ Sequence 11 BP; 2 A; 3 C; 4 G; 2 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 21 AGTCACG 28  
 |||||  
 DB 10 AGTCACG 3  
 |||||  
 RESULT 539  
 ABV70819  
 ID ABV70819 standard; cDNA; 11 BP.  
 XX  
 AC ABV70819;  
 XX  
 DT 21-OCT-2002 (first entry)  
 XX  
 DE Human skin EST 8605.  
 XX  
 KM Human; skin; dermatological; vulnery; antipsoriatic; antiseborrheic;  
 KM immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;  
 KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200253774-A2.  
 XX  
 PD 11-JUL-2002.  
 XX  
 PF 20-DEC-2001; 2001WO-BP015179.  
 XX  
 PR 03-JAN-2001; 2001DE-01000127.  
 XX  
 PA (HENKEL) HENKEL KGAA.  
 XX  
 PI Petersohn D, Conradt M, Hofmann K;  
 XX  
 DR WPI; 2002-590638/63.  
 XX  
 PT In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.  
 XX  
 PS Claim 24; Page 275; 1345pp; German.  
 XX  
 CC The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 CC  
 SQ Sequence 11 BP; 3 A; 1 C; 4 G; 3 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 12 TGTAACG 19  
 |||||  
 DB 4 TGTAACG 11  
 |||||  
 RESULT 540  
 ABV64705

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ID  ABV64705 standard; cDNA; 11 BP.
XX
AC  ABV64705;
XX
DT  21-OCT-2002 (first entry)
XX
DE  Human skin EST 2491.
XX
XX  Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KM  immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
XX  psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
OS  Homo sapiens.
XX
PN  WO200253774-A2.
XX
PD  11-JUL-2002.
XX
PF  20-DEC-2001; 2001WO-EP015179.
XX
PR  03-JAN-2001; 2001DE-01000127.
XX
PS  (HENKEL KGAA.
XX  Petersohn D, Conradt M, Hofmann K;
PI  WPI; 2002-590638/63.
XX
DR  In vitro identification of skin-expressed genes, useful for determining
PT  homeostasis and identifying cosmetic or pharmaceutical agents against
XX  e.g. skin cancer.
XX
PS  Disclosure; Page 94; 1345bp; German.
XX
CC  The invention relates to in vitro identification (M1) of genes expressed
CC  in the skin of humans or animals by subjecting a mixture of genetically
CC  encoded factors from skin, to serial analysis of gene expression (SAGE)
CC  so as to identify skin-expressed genes and quantify their expression.
CC  (M1) is useful for identifying genes involved in skin homeostasis; to
CC  determine skin homeostasis and to test agent (A) that maintains or
CC  promotes skin homeostasis or that can be used for treating skin
CC  disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC  ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC  rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC  skin. The present sequence is that of a human expressed sequence tag
CC  (EST) of the invention
XX
SQ  Sequence 11 BP; 1 A; 6 C; 3 G; 1 T; 0 U; 0 Other;
XX
Query Match      28.6%; Score 8; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.7e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY  4 GCCTACG 11
    |||||
    4 GCCTACG 11
DB  4 GCCTACG 11
XX
RESULT 541
ABV62810/c
ID  ABV62810 standard; cDNA; 11 BP.
XX
AC  ABV62810;
XX
DT  21-OCT-2002 (first entry)
XX
DE  Human skin EST 596.
XX
XX  Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KM  immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
XX  psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
OS  Homo sapiens.
XX

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XX
PN  WO200253774-A2.
XX
PD  11-JUL-2002.
XX
PF  20-DEC-2001; 2001WO-EP015179.
XX
PR  03-JAN-2001; 2001DE-01000127.
XX
PS  (HENKEL KGAA.
XX  Petersohn D, Conradt M, Hofmann K;
PI  WPI; 2002-590638/63.
XX
DR  In vitro identification of skin-expressed genes, useful for determining
PT  homeostasis and identifying cosmetic or pharmaceutical agents against
XX  e.g. skin cancer.
XX
PS  Disclosure; Page 41; 1345bp; German.
XX
CC  The invention relates to in vitro identification (M1) of genes expressed
CC  in the skin of humans or animals by subjecting a mixture of genetically
CC  encoded factors from skin, to serial analysis of gene expression (SAGE)
CC  so as to identify skin-expressed genes and quantify their expression.
CC  (M1) is useful for identifying genes involved in skin homeostasis; to
CC  determine skin homeostasis and to test agent (A) that maintains or
CC  promotes skin homeostasis or that can be used for treating skin
CC  disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC  ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC  rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC  skin. The present sequence is that of a human expressed sequence tag
CC  (EST) of the invention
XX
SQ  Sequence 11 BP; 1 A; 4 C; 2 G; 4 T; 0 U; 0 Other;
XX
Query Match      28.6%; Score 8; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.7e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY  21 AGTCCAG 28
    |||||
    11 AGTCCAG 4
DB  11 AGTCCAG 4
XX
RESULT 542
ABV64719/c
ID  ABV64719 standard; cDNA; 11 BP.
XX
AC  ABV64719;
XX
DT  21-OCT-2002 (first entry)
XX
DE  Human skin EST 2505.
XX
XX  Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KM  immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
XX  psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
OS  Homo sapiens.
XX
PN  WO200253774-A2.
XX
PD  11-JUL-2002.
XX
PF  20-DEC-2001; 2001WO-EP015179.
XX
PR  03-JAN-2001; 2001DE-01000127.
XX
PS  (HENKEL KGAA.
XX  Petersohn D, Conradt M, Hofmann K;
PI
XX

```

DR WPI; 2002-590638/63.  
XX  
XX In vitro identification of skin-expressed genes, useful for determining  
PT homeostasis and identifying cosmetic or pharmaceutical agents against  
PT e.g. skin cancer.  
XX  
PS Disclosure; Page 94; 1345p; German.  
XX  
XX The invention relates to in vitro identification (M1) of genes expressed  
CC in the skin of humans or animals by subjecting a mixture of genetically  
CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
CC so as to identify skin-expressed genes and quantify their expression.  
CC (M1) is useful for identifying genes involved in skin homeostasis, to  
CC determine skin homeostasis and to test agent (A) that maintains or  
CC promotes skin homeostasis or that can be used for treating skin  
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
CC skin. The present sequence is that of a human expressed sequence tag  
CC (EST) of the invention  
XX  
SQ Sequence 11 BP; 2 A; 3 C; 4 G; 2 T; 0 U; 0 Other;  
XX  
Query Match 28.6%; Score 8; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 2 GAGGCCCTA 9  
DB 9 GAGGCCCTA 2  
XX  
RESULT 543  
ABV65110  
ID ABV65110 standard; cDNA; 11 BP.  
XX  
AC ABV65110;  
XX  
DT 21-OCT-2002 (first entry)  
XX  
XX Human skin EST 2896.  
XX  
XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrheic;  
KM immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;  
KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO200253774-A2.  
XX  
XX 11-JUL-2002.  
XX  
XX 20-DEC-2001; 2001WO-EP015179.  
XX  
XX 03-JAN-2001; 2001DE-01000127.  
XX  
XX (HENK ) HENKEL KGAA.  
XX  
XX Petersohn D, Conradt M, Hofmann K;  
XX  
XX WPI; 2002-590638/63.  
XX  
XX In vitro identification of skin-expressed genes, useful for determining  
PT homeostasis and identifying cosmetic or pharmaceutical agents against  
PT e.g. skin cancer.  
XX  
XX Disclosure; Page 105; 1345p; German.  
XX  
XX The invention relates to in vitro identification (M1) of genes expressed  
CC in the skin of humans or animals by subjecting a mixture of genetically  
CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
CC so as to identify skin-expressed genes and quantify their expression.  
CC (M1) is useful for identifying genes involved in skin homeostasis, to  
CC determine skin homeostasis and to test agent (A) that maintains or  
CC promotes skin homeostasis or that can be used for treating skin  
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
CC skin. The present sequence is that of a human expressed sequence tag  
CC (EST) of the invention  
XX  
SQ Sequence 11 BP; 5 A; 2 C; 3 G; 1 T; 0 U; 0 Other;

CC determine skin homeostasis and to test agent (A) that maintains or  
CC promotes skin homeostasis or that can be used for treating skin  
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
CC skin. The present sequence is that of a human expressed sequence tag  
CC (EST) of the invention  
XX  
SQ Sequence 11 BP; 3 A; 2 C; 3 G; 3 T; 0 U; 0 Other;  
XX  
Query Match 28.6%; Score 8; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
XX  
QY 20 GAGTCCAG 27  
DB 4 GAGTCCAG 11  
XX  
RESULT 544  
ABV71864/C  
ID ABV71864 standard; cDNA; 11 BP.  
XX  
AC ABV71864;  
XX  
DT 21-OCT-2002 (first entry)  
XX  
XX Human skin EST 9650.  
XX  
XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrheic;  
KM immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;  
KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
XX  
XX Homo sapiens.  
XX  
XX WO200253774-A2.  
XX  
XX 11-JUL-2002.  
XX  
XX 20-DEC-2001; 2001WO-EP015179.  
XX  
XX 03-JAN-2001; 2001DE-01000127.  
XX  
XX (HENK ) HENKEL KGAA.  
XX  
XX Petersohn D, Conradt M, Hofmann K;  
XX  
XX WPI; 2002-590638/63.  
XX  
XX In vitro identification of skin-expressed genes, useful for determining  
PT homeostasis and identifying cosmetic or pharmaceutical agents against  
PT e.g. skin cancer.  
XX  
XX Claim 24; Page 312; 1345p; German.  
XX  
XX The invention relates to in vitro identification (M1) of genes expressed  
CC in the skin of humans or animals by subjecting a mixture of genetically  
CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
CC so as to identify skin-expressed genes and quantify their expression.  
CC (M1) is useful for identifying genes involved in skin homeostasis, to  
CC determine skin homeostasis and to test agent (A) that maintains or  
CC promotes skin homeostasis or that can be used for treating skin  
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
CC skin. The present sequence is that of a human expressed sequence tag  
CC (EST) of the invention  
XX  
SQ Sequence 11 BP; 5 A; 2 C; 3 G; 1 T; 0 U; 0 Other;  
XX  
Query Match 28.6%; Score 8; DB 1; Length 11;  
Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;



QY 7 CTACGTGT 14  
 DB 11 CTACGTGT 4

RESULT 545  
 ABV65919  
 ID ABV65919 standard; cDNA, 11 BP.  
 XX  
 AC ABV65919;  
 XX  
 DT 21-OCT-2002 (first entry)  
 XX  
 DE Human skin EST 3705.  
 XX  
 KM Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;  
 KM immunosuppressive; antiinflammatory; cyostatic; SAGE; neurodermatitis;  
 KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200253774-A2.  
 XX  
 PD 11-JUL-2002.  
 XX  
 PF 20-DEC-2001; 2001WO-EP015179.  
 XX  
 PR 03-JAN-2001; 2001DE-01000127.  
 XX  
 PA (HENK ) HENKEL KGAA.  
 XX  
 PI Petersohn D, Conradt M, Hofmann K;  
 XX  
 DR WPI; 2002-590638/63.  
 XX  
 PT In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.  
 XX  
 PS Disclosure; Page 128; 1345pp; German.  
 XX  
 CC The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 CC  
 SQ Sequence 11 BP; 1 A; 2 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 18 GGGAATCC 25  
 DB 4 GGGAATCC 11

RESULT 546  
 ABV63398  
 ID ABV63398 standard; cDNA, 11 BP.  
 XX  
 AC ABV63398;  
 XX  
 DT 21-OCT-2002 (first entry)  
 XX

XX  
 DE Human skin EST 1184.  
 XX  
 KM Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;  
 KM immunosuppressive; antiinflammatory; cyostatic; SAGE; neurodermatitis;  
 KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200253774-A2.  
 XX  
 PD 11-JUL-2002.  
 XX  
 PF 20-DEC-2001; 2001WO-EP015179.  
 XX  
 PR 03-JAN-2001; 2001DE-01000127.  
 XX  
 PA (HENK ) HENKEL KGAA.  
 XX  
 PI Petersohn D, Conradt M, Hofmann K;  
 XX  
 DR WPI; 2002-590638/63.  
 XX  
 PT In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.  
 XX  
 PS Disclosure; Page 57; 1345pp; German.  
 XX  
 CC The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; the  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 CC  
 SQ Sequence 11 BP; 3 A; 1 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 12 TGTACAG 19  
 DB 4 TGTACAG 11

RESULT 547  
 ABV64393/C  
 ID ABV64393 standard; cDNA, 11 BP.  
 XX  
 AC ABV64393;  
 XX  
 DT 21-OCT-2002 (first entry)  
 XX  
 DE Human skin EST 2179.  
 XX  
 KM Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;  
 KM immunosuppressive; antiinflammatory; cyostatic; SAGE; neurodermatitis;  
 KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200253774-A2.  
 XX  
 PD 11-JUL-2002.  
 XX

PF 20-DEC-2001, 2001WO-EP015179.  
 XX 03-JAN-2001, 2001DE-01000127.  
 XX (HENK ) HENKEL KGAA.  
 PA Petersohn D, Conradt M, Hofmann K;  
 PI WPI; 2002-590638/63.  
 DR WPI; 2002-590638/63.  
 XX  
 PT In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.  
 PS Disclosure; Page 85, 1345pp; German.  
 XX  
 CC The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 XX  
 SQ Sequence 11 BP; 2 A; 5 C; 2 G; 2 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 20 GAGTCCAG 27  
 DB 11 GAGTCCAG 4  
 RESULT 548  
 ABV64443/c  
 ID ABV64443 standard; cDNA; 11 BP.  
 XX  
 AC ABV64443;  
 XX  
 DT 21-OCT-2002 (first entry)  
 XX  
 DE Human skin EST 2229.  
 XX  
 KW Human; skin; dermatological; vulnary; antipsoriatic; antiseborrheic;  
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;  
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200253774-A2.  
 XX  
 PD 11-JUL-2002.  
 XX  
 PF 20-DEC-2001, 2001WO-EP015179.  
 XX  
 PR 03-JAN-2001, 2001DE-01000127.  
 XX  
 PA (HENK ) HENKEL KGAA.  
 PI Petersohn D, Conradt M, Hofmann K;  
 XX  
 DR WPI; 2002-590638/63.  
 XX  
 PT In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.

XX Disclosure; Page 87, 1345pp; German.  
 PS  
 XX  
 CC The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 XX  
 SQ Sequence 11 BP; 5 A; 2 C; 3 G; 1 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 7 CTACGTGT 14  
 DB 11 CTACGTGT 4  
 RESULT 549  
 ABV72049  
 ID ABV72049 standard; cDNA; 11 BP.  
 XX  
 AC ABV72049;  
 XX  
 DT 21-OCT-2002 (first entry)  
 XX  
 DE Human skin EST 9835.  
 XX  
 KW Human; skin; dermatological; vulnary; antipsoriatic; antiseborrheic;  
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;  
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200253774-A2.  
 XX  
 PD 11-JUL-2002.  
 XX  
 PF 20-DEC-2001, 2001WO-EP015179.  
 XX  
 PR 03-JAN-2001, 2001DE-01000127.  
 XX  
 PA (HENK ) HENKEL KGAA.  
 PI Petersohn D, Conradt M, Hofmann K;  
 XX  
 DR WPI; 2002-590638/63.  
 XX  
 PT In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.  
 PS Claim 24; Page 319, 1345pp; German.  
 XX  
 CC The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the

CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 XX  
 SQ Sequence 11 BP; 3 A; 2 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 19 GGAGTCCA 26  
 |||||  
 DB 3 GGAGTCCA 10

RESULT 550  
 ABV69736  
 ID ABV69736 standard; cDNA; 11 BP.  
 XX  
 AC ABV69736;  
 XX  
 DT 21-OCT-2002 (first entry)  
 XX  
 DE Human skin EST 7522.  
 XX  
 KM Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;  
 KM immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;  
 KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200253774-A2.  
 XX  
 PD 11-JUL-2002.  
 XX  
 PF 20-DEC-2001; 2001WO-EP015179.  
 XX  
 PR 03-JAN-2001; 2001DE-01000127.  
 XX  
 PA (HENK ) HENKEL KGAA.  
 XX  
 PI Petersohn D, Conradt M, Hofmann K;  
 XX  
 DR WPI; 2002-590638/63.  
 XX  
 PT In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.  
 XX  
 PS Claim 24; Page 237; 1345pp; German.  
 XX  
 CC The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 XX  
 SQ Sequence 11 BP; 4 A; 2 C; 5 G; 0 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 15 ACAGGAG 22  
 |||||  
 DB 2 ACAGGAG 9

RESULT 551  
 ABV6268  
 ID ABV6268 standard; cDNA; 11 BP.  
 XX  
 AC ABV6268;  
 XX  
 DT 21-OCT-2002 (first entry)  
 XX  
 DE Human skin EST 4054.  
 XX  
 KM Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;  
 KM immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;  
 KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200253774-A2.  
 XX  
 PD 11-JUL-2002.  
 XX  
 PF 20-DEC-2001; 2001WO-EP015179.  
 XX  
 PR 03-JAN-2001; 2001DE-01000127.  
 XX  
 PA (HENK ) HENKEL KGAA.  
 XX  
 PI Petersohn D, Conradt M, Hofmann K;  
 XX  
 DR WPI; 2002-590638/63.  
 XX  
 PT In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.  
 XX  
 PS Disclosure; Page 137; 1345pp; German.  
 XX  
 CC The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 XX  
 SQ Sequence 11 BP; 2 A; 3 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 2 GGGCCCTA 9  
 |||||  
 DB 3 GGGCCCTA 10

RESULT 552  
 ABV68998/c  
 ID ABV68998 standard; cDNA; 11 BP.  
 XX  
 AC ABV68998;  
 XX  
 DT 21-OCT-2002 (first entry)  
 XX  
 DE Human skin EST 6784.  
 XX  
 KM Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;  
 KM immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;

XX psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
 OS Homo sapiens.  
 XX WO200253774-A2.  
 PN 11-JUL-2002.  
 XX 20-DEC-2001; 2001WO-EP015179.  
 PF 03-JAN-2001; 2001DE-01000127.  
 XX (HENK) HENKEL KGAA.  
 PA Petersohn D, Conradt M, Hofmann K;  
 PI WPI; 2002-590638/63.  
 DR In vitro identification of skin-expressed genes, useful for determining  
 XX PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.  
 XX PS Disclosure; Page 213; 1345pp; German.  
 XX CC The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 XX SQ Sequence 11 BP; 1 A; 3 C; 4 G; 3 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 20 GAGTCCAG 27  
 Db 9 GAGTCCAG 2  
 RESULT 553  
 ABL91942  
 ID ABL91942 standard; cDNA; 11 BP.  
 XX AC ABL91942;  
 XX 30-MAY-2002 (first entry)  
 DE Human Pan-Endothelial Marker SEQ ID NO 40.  
 XX Human; mouse; rat; TEM; tumour endothelial marker; NEM; PEM; cytostatic;  
 XX normal endothelial marker; pan-endothelial marker; immunostimulant;  
 XX antiangiogenic; tumour; neoangiogenesis; vascularised tumour;  
 XX polycystic kidney disease; diabetes; retinopathy; rheumatoid arthritis;  
 XX psoriasis; ss.  
 XX Homo sapiens.  
 XX WO200210217-A2.  
 PN 07-FEB-2002.  
 XX 01-AUG-2001; 2001WO-US024031.  
 PF 02-AUG-2000; 2000US-0222599P.  
 PR

PR 11-AUG-2000; 2000US-0224360P.  
 PR 11-APR-2001; 2001US-0282850P.  
 XX (UYJO) UNIV JOHNS HOPKINS.  
 XX St Croix B, Kinzler KM, Vogelstein B;  
 PI WPI; 2002-291856/33.  
 XX An isolated molecule comprising an antibody variable region which  
 PT specifically binds to an extracellular domain of a tumor endothelial  
 PT marker (TEM) protein, useful for inhibiting tumor growth.  
 XX Example 4; Page 325; 311pp; English.  
 XX The invention relates to an isolated molecule comprising an antibody  
 CC variable region which specifically binds to an extracellular domain of a  
 CC tumour endothelial marker (TEM) protein selected from ABB90732, ABB90740,  
 CC ABB90749, ABB90750 and ABB90769. The antibodies which bind to TEM  
 CC proteins have cytostatic, immunostimulant and antiangiogenic activity.  
 CC They are useful for inhibiting tumour growth, neoangiogenesis in subjects  
 CC bearing a vascularised tumour, polycystic kidney disease, diabetic  
 CC retinopathy, rheumatoid arthritis and psoriasis. Human, mouse and rat TEM  
 CC genes and the encoded proteins (ABL92075-ABL92141 and ABB90721-ABB90789)  
 CC are disclosed, as are marker oligonucleotide sequences: tumour  
 CC endothelial markers (TEM) ABL91986-ABL92041 and ABL92143-ABL92191, normal  
 CC endothelial markers (NEM) ABL92042-ABL92074, and pan-endothelial markers  
 CC (PEM) ABL91903-ABL91995. The present sequence is that of an  
 CC oligonucleotide marker useful to the invention  
 XX SQ Sequence 11 BP; 2 A; 4 C; 3 G; 2 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 3 GGCCCTAC 10  
 Db 1 GGCCCTAC 8  
 RESULT 554  
 ABL91942  
 ID ABL91942 standard; DNA; 11 BP.  
 XX AC ABL91942;  
 XX 02-JUL-2002 (first entry)  
 DE Oligonucleotide #6 for detecting SNP in 5'-region of human CYP3A4 gene.  
 XX Human; single nucleotide polymorphism; SNP; cytochrome p450; CYP; CYP3A4;  
 XX ss.  
 XX Homo sapiens.  
 XX WO200218641-A2.  
 PN 07-MAR-2002.  
 XX 30-AUG-2001; 2001WO-IB001580.  
 PF 30-AUG-2000; 2000GB-00021286.  
 XX (GEMI-) GEMINI GENOMICS PLC.  
 XX Risinger C, Andersson MK, Lewander T, Olafsson E;  
 PI WPI; 2002-351712/38.  
 XX Novel primer pairs and sequence determination oligonucleotides useful for  
 PT amplifying and detecting novel single nucleotide polymorphisms in the 5'  
 PT flanking regions of cytochrome p450 (CYP)3A4 and CYP2C9 genes  
 PT

PT respectively.  
 XX  
 PS Claim 4; Page 17; 47p; English.  
 XX  
 CC The present invention relates to PCR primer pairs for amplifying and  
 CC sequence determination oligonucleotides for detecting single nucleotide  
 CC polymorphisms (SNPs) in the 5'-flanking regions of human cytochrome p450  
 CC (CYP) genes encoding CYP3A4 or CYP2C9. The SNPs correspond to position  
 CC 461 of a defined 1345 base pair sequence for CYP3A4 or position 957,  
 CC 1049, 1164, 1526, 1661 and 1662 of a 2438 base pair sequence for CYP2C9.  
 CC The PCR primers are useful for amplifying the CYP sequences and the  
 CC oligonucleotides are useful for detecting SNPs in the 5'-flanking regions  
 CC of the CYP3A4 or CYP2C9 genes. ABK68755-ABK68761 represent  
 CC oligonucleotides for detecting the polymorphism in the 5'-flanking region  
 CC of the human CYP3A4 gene  
 CC  
 SQ Sequence 11 BP; 3 A; 4 C; 2 G; 2 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 11 GTGTACAG 18  
 Db 9 GTGTACAG 2  
 RESULT 555  
 ABK68759  
 ID ABK68759 standard; DNA; 11 BP.  
 AC  
 XX ABK68759;  
 XX  
 DT 02-JUL-2002 (first entry)  
 XX  
 DE Oligonucleotide #5 for detecting SNP in 5'-region of human CYP3A4 gene.  
 XX  
 KM Human; single nucleotide polymorphism; SNP; cytochrome p450; CYP; CYP3A4;  
 KM ss.  
 OS  
 XX Homo sapiens.  
 XX  
 PN WO200218641-A2.  
 XX  
 PD 07-MAR-2002.  
 XX  
 PF 30-AUG-2001; 2001WO-IB001580.  
 XX  
 PR 30-AUG-2000; 2000GB-00021286.  
 XX  
 PA (GEMT-) GEMINI GENOMICS PLC.  
 XX  
 PI Ristinger C, Andersson MK, Lewander T, Olaiasson E;  
 XX  
 DR WPI; 2002-351712/38.  
 XX  
 PT Novel primer pairs and sequence determination oligonucleotides useful for  
 PT amplifying and detecting novel single nucleotide polymorphisms in the 5'  
 PT flanking regions of cytochrome p450 (CYP) 3A4 and CYP2C9 genes  
 PT respectively.  
 XX  
 PS Claim 4; Page 17; 47p; English.  
 XX  
 CC The present invention relates to PCR primer pairs for amplifying and  
 CC sequence determination oligonucleotides for detecting single nucleotide  
 CC polymorphisms (SNPs) in the 5'-flanking regions of human cytochrome p450  
 CC (CYP) genes encoding CYP3A4 or CYP2C9. The SNPs correspond to position  
 CC 461 of a defined 1345 base pair sequence for CYP3A4 or position 957,  
 CC 1049, 1164, 1526, 1661 and 1662 of a 2438 base pair sequence for CYP2C9.  
 CC The PCR primers are useful for amplifying the CYP sequences and the  
 CC oligonucleotides are useful for detecting SNPs in the 5'-flanking regions  
 CC of the CYP3A4 or CYP2C9 genes. ABK68755-ABK68761 represent  
 CC oligonucleotides for detecting the polymorphism in the 5'-flanking region

CC of the human CYP3A4 gene  
 XX  
 SQ Sequence 11 BP; 2 A; 2 C; 4 G; 3 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 11 GTGTACAG 18  
 Db 3 GTGTACAG 10  
 RESULT 556  
 ABL51577/c  
 ID ABL51577 standard; DNA; 11 BP.  
 AC  
 XX ABL51577;  
 XX  
 DT 03-JUL-2002 (first entry)  
 XX  
 DE Transferrin receptor gene related oligonucleotide fragment #7.  
 XX  
 KM Polymorphism; single nucleotide polymorphism; SNP; identification;  
 KM detection; hybridisation; genotyping; transferrin receptor; human; ss.  
 OS  
 XX Homo sapiens.  
 OS  
 XX Synthetic.  
 XX  
 PN WO200221098-A2.  
 XX  
 PD 14-MAR-2002.  
 XX  
 PF 04-SEP-2001; 2001WO-US027446.  
 XX  
 PR 05-SEP-2000; 2000US-00655104.  
 XX  
 PA (VARI-) VARIAGENICS INC.  
 XX  
 PI Stanton VP, Wolfe JL, Kawate T, Verdine GJ;  
 XX  
 DR WPI; 2002-362259/39.  
 XX  
 PT Detecting polymorphism in a polynucleotide (N) comprises hybridizing an  
 PT oligonucleotide with a variant (N) having modified nucleotides  
 PT incorporated at each point of suspected polymorphism occurrence.  
 XX  
 PS Example 4; Fig 29b; 245pp; English.  
 XX  
 CC The present invention describes a method for detecting a polymorphism (P)  
 CC in polynucleotide (N). The method comprises: (1) hybridising  
 CC oligonucleotides with fragments of (N) segments which contain a  
 CC polymorphism, and have modified nucleotides that are incorporated at each  
 CC point of occurrence of suspected (P) during amplification; and (2)  
 CC analysing the hybridising fragments for an incorporated detectable label  
 CC identifying the susceptible polymorphism. The method is used for  
 CC detecting polymorphisms (e.g. a single nucleotide polymorphism (SNP), a  
 CC deletion or an insertion) in (N). The method is useful for developing  
 CC diagnostic and prognostic tools for detecting a predisposition of certain  
 CC disease and disorders. The method is useful for detecting variance in DNA  
 CC sequencing, and has applications in genotyping. The present sequence  
 CC represents a transferrin receptor gene related oligonucleotide sequence,  
 CC which is used in an example from the present invention  
 CC  
 SQ Sequence 11 BP; 0 A; 4 C; 3 G; 4 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 11;  
 Best Local Similarity 100.0%; Pred. No. 2.7e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 15 ACAGGAG 22  
 Db 11 ACAGGAG 4

```

RESULT 557
ABX71867
ID ABX71867 standard; DNA; 11 BP.
XX
AC ABX71867;
XX
DT 12-MAR-2003 (first entry)
XX
DE DNA tag used to identify human gene encoding PEM 40.
XX
KW Human; endothelial cell; EC; tumour endothelial cell; TEM; NEM;
KW Tumour endothelial marker; normal endothelial marker; PEM;
KW pan-endothelial marker; polycystic kidney disease; psoriasis;
KW diabetic retinopathy; rheumatoid arthritis; tumour angiogenesis;
KW neoangiogenesis; immune response; cytostatic; antidiabetic;
KW ophthalmological; antineumatic; antiarthritic; antipsoriatic; ds.
XX
OS Homo sapiens.
XX
PN WO200283874-A2.
XX
PD 24-OCT-2002.
XX
PF 10-APR-2002; 2002WO-US008253.
XX
PR 11-APR-2001; 2001US-0282850P.
XX
PR 06-FEB-2002; 2002US-0354262P.
XX
PA (UYJO ) UNITV JOHNS HOPKINS.
XX
PI Carson-Walter E, St Croix B, Kinzler KM, Vogelstein B;
XX
DR WPI; 2003-093016/08.
XX
XX
PT New purified human transmembrane protein, designated as tumor endothelial
PT marker (TEM) 3, useful for detecting, diagnosing or treating tumors,
PT polycystic kidney disease, diabetic retinopathy, rheumatoid arthritis or
PT psoriasis.
XX
PS Disclosure; Page 93; 374pp; English.
XX
CC The present invention relates to a novel method for the isolation of
CC endothelial cells (ECs) and the identification of genes expressed in
CC normal and tumour ECs. Tumour endothelial marker (TEM), normal
CC endothelial marker (NEM), and pan-endothelial marker (PEM) genes are
CC identified in human ECs. The human EC marker proteins and the
CC polynucleotide sequences encoding them are useful for detecting,
CC diagnosing or treating tumours as well as polycystic kidney disease,
CC diabetic retinopathy, rheumatoid arthritis, and psoriasis. They are also
CC useful for inhibiting neoangiogenesis or tumour angiogenesis, for
CC inducing an immune response to tumour endothelial cells in a patient, or
CC for identifying candidate drugs for treating tumours. ABX71828-ABX71999
CC represent DNA tags for human PEM, TEM or NEM genes
XX
SQ Sequence 11 BP; 2 A; 4 C; 3 G; 2 T; 0 U; 0 Other;

```

```

Query Match 28.6%; Score 8; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 2.7e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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```

QY 3 GGGCCCTAC 10
    |||||
    1 GGGCCCTAC 8
DB 1 GGGCCCTAC 8
RESULT 558
AAK79373
ID AAK79373 standard; DNA; 12 BP.
XX
AC AAK79373;
XX

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```

DT 17-AUG-1999 (first entry)
XX
DE HLA-DR typing probe L74.
XX
KW Tissue typing; human leukocyte antigen; HLA; MHC; donor; allele; PCR;
KW major histocompatibility complex; bone marrow transplant; primer;
KW amplification; polymerase chain reaction; probe; polymorphism;
KW sequence-specific oligonucleotide probe hybridisation; ss.
XX
OS Synthetic.
XX
PN US5468611-A.
XX
PD 21-NOV-1995.
XX
PF 08-APR-1993; 93US-00045530.
XX
PR 27-JUN-1990; 90US-00544218.
XX
PA (BLOO-) BLOOD CENT RES FOUND INC.
XX
PI Gorski JA, Baxter-Lowe LA;
XX
DR WPI; 1996-010091/01.
XX
XX
PT Improved method for HLA typing - by DNA amplification and sequence-
PT specific oligo:nucleotide hybridisation, used to select bone marrow
PT donors.
XX
PS Disclosure; Col 19-20; 20pp; English.
XX
CC A novel method of typing the human leukocyte antigen (HLA) of the major
CC histocompatibility complex (MHC), esp. for typing donors for bone marrow
CC transplants, involves determining if the donor tissue HLA-DR alleles are
CC selected from the gp.: HLA-DMS52C, DR12a,b, DR3a,n, DR3a-e, DNEw1, DR6a,
CC DR8a-d, DRW53a-c, DR4a-f, DR7, DR9, DR2a-c B3, DR2a-d B1, DR10 and DR1a-
CC c. The method uses PCR to amplify these regions followed by sequence-
CC specific oligonucleotide probe hybridisation (SSOPH) using the probes
CC AAK79365-X79429. SSOPH allows detection of polymorphisms that predict
CC differences at a single amino acid level thus reducing errors and
CC improving the chance of successfully matching tissues
XX
SQ Sequence 12 BP; 1 A; 4 C; 6 G; 1 T; 0 U; 0 Other;

```

```

Query Match 28.6%; Score 8; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 3.1e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1 GGGGCCCT 8
    |||||
    4 GGGGCCCT 11
DB 4 GGGGCCCT 11
RESULT 559
AAK79373
ID AAK79373 standard; DNA; 12 BP.
XX
AC AAK79373;
XX
DT 25-MAR-2003 (revised)
DT 18-DEC-1996 (first entry)
XX
DE HLA allele, HLA-DRB1*08, *12 and *1404 resolution probe, L74.
XX
KW Human leukocyte antigen; HLA; allele; HLA-DR*08; HLA-DR*12; locus B1;
KW polymorphism; amplify; conserved region; detection; primer; probe;
KW tissue matching; identifying disease susceptibility; ss.
XX
OS Synthetic.
XX
PN US5545526-A.
XX
PD 13-AUG-1996.

```

XX 01-MAR-1993; 93US-00025038.  
 PF 27-JUN-1990; 90US-00544218.  
 FR (BLOOD CENTR RES FOUND INC.  
 PA Baxter-Lowe LA;  
 XX MPI; 1996-383664/38.  
 DR  
 XX Human leukocyte antigen typing of tissue samples - using allele-specific  
 PT amplification to distinguish allele pairs.  
 PS  
 XX Example 1; Col 19; 24pp; English.

CC The sequences given in AAT41811-20 represent probes which were used to  
 CC resolve the human leukocyte antigen (HLA) DRB1 alleles, DRB1\*08, \*12 and  
 CC \*1404. This probe sequence hybridizes to the Leu74 coding region found in  
 CC alleles \*0801, \*0802, \*0803 and 0804. These probes may be used in the  
 CC method of invention which concerns HLA typing of a sample for an unknown  
 CC pair of alleles. The pair of alleles comprises one of two known types  
 CC which have the same overall set of polymorphisms but have a different  
 CC distribution of polymorphisms between their two alleles. The method  
 CC comprises selectively amplifying the DNA of just one allele of the  
 CC unknown pair and analysing the amplified DNA to determine which  
 CC polymorphisms are present in that allele, and therefore assigning the  
 CC unknown pair to the known type having that allele. The method comprises  
 CC three test stages. The first stage is to establish the number of alleles  
 CC present in each sample. Primers corresponding to fairly well conserved  
 CC regions of a locus will increase the likelihood that unknown alleles will  
 CC be amplified and potentially detected by hybridisation with a probe. In  
 CC the second stage, the group or basic type identified determines which set  
 CC of allele specific primers will be used. The first of the two primers  
 CC identifies an opt. labeled sequence common to each allele of the group  
 CC identified in the first stage but different from other groups identified  
 CC in stage one. The second primer may be a mixture of different labeled  
 CC primers, complementary to two or more sequences within the group, or the  
 CC amplification may be performed with only one second primer to detect the  
 CC presence of a single group of alleles. In the third stage the specific  
 CC allele is determined. This may be done by amplification or hybridisation  
 CC using a radiolabeled probe. The method may be used for tissue matching,  
 CC identifying disease susceptibility, etc. The method of the invention esp.  
 CC distinguishes between DOB1\*0304/DOB1\*0302 and DOB1\*0301/DOB1\*0302.  
 CC (Updated on 25-MAR-2003 to correct PF field.)  
 CC  
 XX

SO Sequence 12 BP; 1 A; 6 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 12;  
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGGGCCCT 8  
 DB 9 CGGGCCCT 2

RESULT 560  
 ID AAV1569 standard; DNA; 12 BP.  
 AC AAV1569;  
 XX  
 DT 12-JUN-1998 (first entry)

DE Probe L74 used to identify HLA-DR sequences.  
 XX  
 XX

KM DR region; major histocompatibility complex; HLA-DR; HLA-typing;  
 KM HLA-DR beta consensus sequence; allelic polymorphism;  
 KM HLA-DR beta-allelic polymorphism; probe; bone marrow; transplant; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.

XX US5702885-A.  
 PN 30-DEC-1997.  
 PD 08-APR-1993; 93US-00057957.  
 PF 27-JUN-1990; 90US-00544218.  
 PR (BLOOD CENTR RES FOUND INC.  
 PA Gorski JA, Baxter-Lowe LA;  
 XX MPI; 1998-076408/07.  
 DR  
 XX Oligonucleotide probes and primers and methods for HLA typing -  
 PT particularly for tissue typing for bone marrow transplants.  
 PS Disclosure; Col 19; 20pp; English.

CC Probes AAV1561-624 are used to identify differences in the DR region of  
 CC human major histocompatibility complex (HLA-DR). The specification  
 CC describes a method for HLA-typing, which includes an oligonucleotide  
 CC probe which undergoes sequence-specific hybridisation with an HLA-DR beta  
 CC consensus sequence at positions 61-64. The probe contains a labelling  
 CC substance other than a nucleotide sequence, which facilitates detection  
 CC of the probe. The HLA sequence of a subject is PCR amplified, and a probe  
 CC that recognises an allelic polymorphism at a selected HLA locus is  
 CC contacted with the amplified product. This first probe recognises a HLA-  
 CC DR beta-allelic polymorphism. A second (different) probe is brought into  
 CC contact with a second sample of the amplified DNA in a separate reaction,  
 CC and hybridisation detected. The probes and primers are used for HLA  
 CC typing, e.g. for tissue, especially bone marrow, transplants  
 CC  
 XX

SO Sequence 12 BP; 1 A; 4 C; 6 G; 1 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 12;  
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CGGGCCCT 8  
 DB 4 CGGGCCCT 11

RESULT 561  
 ID ABB93621/c  
 AC ABB93621;  
 XX  
 DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 293614 for detecting SNP TSC0015707.  
 XX  
 XX

KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.

PN WO200177384-A2.  
 PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB000713.  
 PR 07-APR-2000; 2000DE-01019173.  
 PA (EPIC-) EPICENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;  
 PI

DR WPI; 2001-657177/75.  
 XX  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 293614; 29pp + Sequence Listing; German.  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 CC  
 SQ Sequence 12 BP; 6 A; 3 C; 1 G; 2 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 12;  
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 8 TACGTGTA 15  
 DB 12 TACGTGTA 5  
 RESULT 562  
 AB106748/C  
 ID AB106748 standard; DNA; 12 BP.  
 AC AB106748;  
 XX  
 DT 22-FEB-2002 (first entry)  
 DE Oligonucleotide primer SEQ ID NO 306721 for detecting SNP TSC0022148.  
 XX  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EP1G-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 306721; 29pp + Sequence Listing; German.  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,

CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 CC  
 SQ Sequence 12 BP; 4 A; 3 C; 1 G; 4 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 12;  
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 QY 8 TACGTGTA 15  
 DB 8 TACGTGTA 1  
 RESULT 563  
 ABH95544  
 ID ABH95544 standard; DNA; 12 BP.  
 AC ABH95544;  
 XX  
 DT 22-FEB-2002 (first entry)  
 DE Oligonucleotide primer SEQ ID NO 295537 for detecting SNP TSC0016628.  
 XX  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EP1G-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 295537; 29pp + Sequence Listing; German.  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 CC  
 SQ Sequence 12 BP; 4 A; 4 C; 1 G; 3 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 12;  
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;



QY 5 CCCTACGT 12  
 DB 5 CCCTACGT 12

RESULT 564  
 AB156358  
 ID AB156358 standard; DNA; 12 BP.  
 AC AB156358;  
 XX  
 XX 22-FEB-2002 (first entry)  
 DE Oligonucleotide primer SEQ ID NO 356331 for detecting SNP TSC0050060.  
 XX  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIC-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 356331; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

SO Sequence 12 BP; 4 A; 1 C; 3 G; 4 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 12;  
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 TACGTGTA 15  
 DB 1 TACGTGTA 8

RESULT 565  
 ABH70251  
 ID ABH70251 standard; DNA; 12 BP.  
 AC ABH70251;  
 XX  
 XX 22-FEB-2002 (first entry)

XX Oligonucleotide primer SEQ ID NO 270228 for detecting SNP TSC002052.  
 DE  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIC-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 270228; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

SO Sequence 12 BP; 2 A; 1 C; 3 G; 6 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 12;  
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 TACGTGTA 15  
 DB 2 TACGTGTA 9

RESULT 566  
 ABH89284  
 ID ABH89284 standard; DNA; 12 BP.  
 AC ABH89284;  
 XX  
 XX 22-FEB-2002 (first entry)  
 DE Oligonucleotide primer SEQ ID NO 289277 for detecting SNP TSC0013867.  
 XX  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.

PF 06-APR-2001, 2001WO-IB000713.  
XX  
XX 07-APR-2000, 2000DE-01019173.  
XX  
XX (EPITG-) EPIGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX WPI; 2001-657177/75.  
XX  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX  
XX Claim 1, SEQ ID NO 289277; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 12 BP; 4 A; 1 C; 4 G; 3 T; 0 U; 0 Other;  
  
Query Match 28.6%; Score 8; DB 1; Length 12;  
Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 8 TACGTGTA 15  
DB 3 TACGTGTA 10  
  
RESULT 567  
ABH92486/C  
ID ABH92486 standard; DNA; 12 BP.  
XX  
XX ABH92486;  
XX  
XX 22-FEB-2002 (first entry)  
XX  
XX Oligonucleotide primer SEQ ID NO 292479 for detecting SNP TSC0015230.  
XX  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
XX  
XX 06-APR-2001, 2001WO-IB000713.  
XX  
XX 07-APR-2000, 2000DE-01019173.  
XX  
XX (EPITG-) EPIGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.

XX  
XX Claim 1, SEQ ID NO 292479; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 12 BP; 1 A; 2 C; 5 G; 4 T; 0 U; 0 Other;  
  
Query Match 28.6%; Score 8; DB 1; Length 12;  
Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
  
QY 4 GCCCTACG 11  
DB 10 GCCCTACG 3  
  
RESULT 568  
AB113410  
ID AB113410 standard; DNA; 12 BP.  
XX  
XX AB113410;  
XX  
XX 22-FEB-2002 (first entry)  
XX  
XX Oligonucleotide primer SEQ ID NO 313383 for detecting SNP TSC0025713.  
XX  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
XX  
XX 06-APR-2001, 2001WO-IB000713.  
XX  
XX 07-APR-2000, 2000DE-01019173.  
XX  
XX (EPITG-) EPIGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX  
XX Claim 1, SEQ ID NO 313383; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but

CC was obtained in electronic format from WIPO at  
ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 12 BP; 2 A; 5 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 12;  
Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CCTTACGT 12  
DB 5 CCTTACGT 12

RESULT 569  
AB162488  
ID AB162488 standard; DNA; 12 BP.

XX AB162488;

XX 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 362461 for detecting SNP TSC0053239.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
OS Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
designed to detect single-nucleotide polymorphisms and cytosine  
methylation status.

XX Claim 1; SEQ ID NO 362461; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic  
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
and cytosine methylation status in chemically pretreated genomic DNA. The  
oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
range of diseases including immune system, gastrointestinal, respiratory,  
central nervous system, cardiovascular and metabolic disorders. The  
oligonucleotides are also used for detecting cell type differentiation. AB000010  
-AB000010, AB000010-AB000010, AB000010-AB000010 and AB000010-AB000010  
represent the oligomers described in the invention. NOTE: The sequence  
data for this patent did not form part of the printed specification, but  
was obtained in electronic format from WIPO at  
ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 12 BP; 4 A; 1 C; 2 G; 5 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 12;  
Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 TACGTGTA 15  
DB 4 TACGTGTA 11

RESULT 570

AB113984  
ID AB113984 standard; DNA; 12 BP.

XX AB113984;

XX 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 313957 for detecting SNP TSC0026047.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
OS Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIG-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
designed to detect single-nucleotide polymorphisms and cytosine  
methylation status.

XX Claim 1; SEQ ID NO 313957; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic  
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
and cytosine methylation status in chemically pretreated genomic DNA. The  
oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
range of diseases including immune system, gastrointestinal, respiratory,  
central nervous system, cardiovascular and metabolic disorders. The  
oligonucleotides are also used for detecting cell type differentiation. AB000010  
-AB000010, AB000010-AB000010, AB000010-AB000010 and AB000010-AB000010  
represent the oligomers described in the invention. NOTE: The sequence  
data for this patent did not form part of the printed specification, but  
was obtained in electronic format from WIPO at  
ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 12 BP; 3 A; 1 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 12;  
Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 TACGTGTA 15  
DB 2 TACGTGTA 9

RESULT 571

ABH95542/c  
ID ABH95542 standard; DNA; 12 BP.

XX ABH95542;

XX 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 295535 for detecting SNP TSC0016627.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX Homo sapiens.  
 OS WO200177384-A2.  
 XX 18-OCT-2001.  
 XX 06-APR-2001; 2001WO-IB000713.  
 XX 07-APR-2000; 2000DE-01019173.  
 XX (EPIC-) EPIGENOMICS AG.  
 XX Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 DR Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 295535; 29pp + Sequence Listing; German.  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 12 BP; 3 A; 1 C; 4 G; 4 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 12;  
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 OY 5 CCTACGT 12  
 Db |||||  
 8 CCTACGT 1  
 RESULT 572  
 ABH76707  
 ID ABH76707 standard; DNA; 12 BP.  
 XX  
 AC ABH76707;  
 XX  
 DT 22-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide primer SEQ ID NO 276700 for detecting SNP TSC0004266.  
 XX  
 SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; se;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX 18-OCT-2001.  
 XX 06-APR-2001; 2001WO-IB000713.  
 XX 07-APR-2000; 2000DE-01019173.  
 XX (EPIC-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 DR Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 276700; 29pp + Sequence Listing; German.  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 12 BP; 2 A; 1 C; 3 G; 6 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 12;  
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 OY 8 TACGTGA 15  
 Db |||||  
 3 TACGTGA 10  
 RESULT 573  
 AB176102/C  
 ID AB176102 standard; DNA; 12 BP.  
 XX  
 AC AB176102;  
 XX  
 DT 22-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide primer SEQ ID NO 376075 for detecting SNP TSC0061603.  
 XX  
 SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; se;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX 18-OCT-2001.  
 XX 06-APR-2001; 2001WO-IB000713.  
 XX 07-APR-2000; 2000DE-01019173.  
 XX (EPIC-) EPIGENOMICS AG.  
 XX Olek A, Piepenbrock C, Berlin K;  
 XX WPI; 2001-657177/75.  
 DR Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 376075; 29pp + Sequence Listing; German.  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 12 BP; 4 A; 1 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 12;  
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 5 CCTACTGT 12  
 |||||  
 DB 10 CCTACTGT 3

RESULT 574

ABH81705  
 ID ABH81705 standard; DNA; 12 BP.

XX ABH81705;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 281698 for detecting SNP TSC0010001.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB000713.

PR 07-APR-2000; 2000DE-01019173.

XX (EPIG-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.

PS Claim 1; SEQ ID NO 281698; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 12 BP; 3 A; 1 C; 3 G; 5 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 12;  
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 TACGTGTA 15  
 |||||  
 DB 5 TACGTGTA 12

RESULT 575

ABH85829/c  
 ID ABH85829 standard; DNA; 12 BP.

XX ABH85829;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 285822 for detecting SNP TSC0012462.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB000713.

PR 07-APR-2000; 2000DE-01019173.

XX (EPIG-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.

PS Claim 1; SEQ ID NO 285822; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABP00010-ABP99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 12 BP; 6 A; 3 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 12;  
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 TACGTGTA 15  
 |||||  
 DB 10 TACGTGTA 3

RESULT 576

ABH86354  
 ID ABH86354 standard; DNA; 12 BP.

XX

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AC ABH6354;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 286347 for detecting SNP TSC0012678.
DE
XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 286347; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 12 BP; 3 A; 1 C; 7 G; 1 T; 0 U; 0 Other;
SQ
Query Match 28.6%; Score 8; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 3.1e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 17 AGGAGATC 24
DB 5 AGGAGATC 12
RESULT 577
AB113988
ID AB113988 standard; DNA; 12 BP.
XX
XX AB113988;
AC
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 313961 for detecting SNP TSC0026047.
XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX WO200177384-A2.
XX

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XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 313961; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 12 BP; 3 A; 2 C; 3 G; 4 T; 0 U; 0 Other;
SQ
Query Match 28.6%; Score 8; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 3.1e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 8 TACGTGTA 15
DB 2 TACGTGTA 9
RESULT 578
ABH97060/C
ID ABH97060 standard; DNA; 12 BP.
XX
XX ABH97060;
AC
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 297053 for detecting SNP TSC0017414.
XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX

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```

Db      1 TACGTGTA 8
|||||
RESULT 581
ABI28945/c
ID      ABI28945 standard; DNA; 12 BP.
XX
AC      ABI28945;
XX
DT      22-FEB-2002 (first entry)
XX
DE      Oligonucleotide primer SEQ ID NO 328918 for detecting SNP TSC0034654.
XX
KM      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM      central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS      Homo sapiens.
XX
PN      WO200177384-A2.
XX
PD      18-OCT-2001.
XX
PF      06-APR-2001; 2001WO-IB000713.
XX
PR      07-APR-2000; 2000DE-01019173.
XX
PA      (EPIC-) EPIGENOMICS AG.
XX
PI      Olek A, Piepenbrock C, Berlin K;
XX
DR      WPI; 2001-657177/75.
XX
PT      Set of oligonucleotides, useful for diagnosis and cell typing, is
PT      designed to detect single-nucleotide polymorphisms and cytosine
PT      methylation status.
XX
PS      Claim 1; SEQ ID NO 328918; 29pp + Sequence Listing; German.
XX
CC      This invention describes novel oligonucleotide primers or peptide nucleic
CC      acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC      and cytosine methylation status in chemically pretreated genomic DNA. The
CC      oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC      range of diseases including immune system, gastrointestinal, respiratory,
CC      central nervous system, cardiovascular and metabolic disorders. The
CC      oligomers are also used for detecting cell type differentiation. ABC00010
CC      -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC      represent the oligomers described in the invention. NOTE: The sequence
CC      data for this patent did not form part of the printed specification, but
CC      was obtained in electronic format from WIPO at
CC      ftp.wipo.int/pub/published_pct_sequences
XX
SQ      Sequence 12 BP; 2 A; 6 C; 1 G; 3 T; 0 U; 0 Other;
XX
Query Match      28.6%; Score 8; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 3.1e+02;
Matches      8; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
XX
QY      17 AGGGAATC 24
|||||
Db      11 AGGGAATC 4
|||||
RESULT 582
ABI10703/c
ID      ABI10703 standard; DNA; 12 BP.
XX
AC      ABI10703;
XX
DT      22-FEB-2002 (first entry)
XX
DE      Oligonucleotide primer SEQ ID NO 310676 for detecting SNP TSC0024049.
XX

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XX      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX      central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS      Homo sapiens.
XX
PN      WO200177384-A2.
XX
PD      18-OCT-2001.
XX
PF      06-APR-2001; 2001WO-IB000713.
XX
PR      07-APR-2000; 2000DE-01019173.
XX
PA      (EPIC-) EPIGENOMICS AG.
XX
PI      Olek A, Piepenbrock C, Berlin K;
XX
DR      WPI; 2001-657177/75.
XX
PT      Set of oligonucleotides, useful for diagnosis and cell typing, is
PT      designed to detect single-nucleotide polymorphisms and cytosine
PT      methylation status.
XX
PS      Claim 1; SEQ ID NO 310676; 29pp + Sequence Listing; German.
XX
CC      This invention describes novel oligonucleotide primers or peptide nucleic
CC      acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC      and cytosine methylation status in chemically pretreated genomic DNA. The
CC      oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC      range of diseases including immune system, gastrointestinal, respiratory,
CC      central nervous system, cardiovascular and metabolic disorders. The
CC      oligomers are also used for detecting cell type differentiation. ABC00010
CC      -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC      represent the oligomers described in the invention. NOTE: The sequence
CC      data for this patent did not form part of the printed specification, but
CC      was obtained in electronic format from WIPO at
CC      ftp.wipo.int/pub/published_pct_sequences
XX
SQ      Sequence 12 BP; 4 A; 4 C; 1 G; 3 T; 0 U; 0 Other;
XX
Query Match      28.6%; Score 8; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 3.1e+02;
Matches      8; Conservative      0; Mismatches      0; Indels      0; Gaps      0;
XX
QY      8 TACGTGTA 15
|||||
Db      11 TACGTGTA 4
|||||
RESULT 583
ABI75403/c
ID      ABI75403 standard; DNA; 12 BP.
XX
AC      ABI75403;
XX
DT      22-FEB-2002 (first entry)
XX
DE      Oligonucleotide primer SEQ ID NO 375376 for detecting SNP TSC0061224.
XX
KM      SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM      peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KM      central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS      Homo sapiens.
XX
PN      WO200177384-A2.
XX
PD      18-OCT-2001.
XX
PF      06-APR-2001; 2001WO-IB000713.
XX

```



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PR 07-APR-2000; 2000DE-01019173.
XX (EPiG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
DR WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 375376; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX oligomers are also used for detecting cell type differentiation.
XX AB093989, AB000010-AB093989, AB000010-AB093989 and AB100010-AB182073
XX represent the oligomers described in the invention. NOTE: The sequence
XX data for this patent did not form part of the printed specification, but
XX was obtained in electronic format from WIPO at
XX ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 5 A; 1 C; 4 G; 2 T; 0 U; 0 Other;
XX
XX Query Match 28.6%; Score 8; DB 1; Length 12;
XX Best Local Similarity 100.0%; Fred. No. 3.1e+02;
XX Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0.
XX
QY 5 CCTTACGT 12
XX |||||
XX 9 CCTTACGT 2
XX
RESULT 584
ABI63259
ID ABI63259 standard; DNA; 12 BP.
XX
XX ABI63259;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide primer SEQ ID NO 363232 for detecting SNP TSC0053719.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-1B000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPiG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 363232; 29pp + Sequence Listing; German.

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XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences

XX Seq  
XX Sequence 12 BP; 2 A; 1 C; 3 G; 6 T; 0 U; 0 Other;

SQ Query Match 28.6%; Score 8; DB 1; Length 12;  
Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 8 TACCGTGA 15  
|||  
3 TACGTGTA 10

Dc Db

RESULT 585  
ABH73580  
ID ABH73580 standard; DNA; 12 BP.  
AC ABH73580;  
DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 273565 for detecting SNP TSC0003234.

KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX Homo sapiens.  
OS WO200177384-A2.  
PN 18-OCT-2001.  
PD 06-APR-2001; 2001MO-IB000713.  
PF 07-APR-2000; 2000DE-01019173.  
PR (EPIG-) EPIGENOMICS AG.  
PA Olek A, Piepenbrock C, Berlin K;  
PI WPI; 2001-657177/75.  
DR Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
XX methylation status.  
XX Claim 1; SEQ ID NO 273565; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 12 BP; 2 A; 1 C; 4 G; 5 T; 0 U; 0 Other;  
SQ

Query Match 28.6%; Score 8; DB 1; Length 12;  
Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 TACGTGTA 15  
|||  
Db 3 TACGTGTA 10

RESULT 586  
ABIS5650/C  
ID ABIS5650 standard; DNA; 12 BP.

XX ABIS5650;  
AC  
XX 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 356623 for detecting SNP TSC0050224.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIC-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K,

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.

XX Claim 1; SEQ ID NO 356623; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 12 BP; 6 A; 3 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 12;  
Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 TACGTGTA 15  
|||  
Db 11 TACGTGTA 4

RESULT 587

ABIS9399/C  
ID ABIS9399 standard; DNA; 12 BP.

XX ABIS9399;

XX 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 359372 for detecting SNP TSC0051583.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIC-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K,

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.

XX Claim 1; SEQ ID NO 359372; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 12 BP; 6 A; 2 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 12;  
Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 8 TACGTGTA 15  
|||  
Db 9 TACGTGTA 2

RESULT 588  
AAF92629  
ID AAF92629 standard; DNA; 12 BP.

XX AAF92629;

XX 16-MAY-2001 (first entry)

DE HLA-DR typing probe #9.

XX Human; leukocyte antigen; HLA; typing; sequence specific probe; SSOPH;  
KM ss.

XX Homo sapiens.

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XX US6194147-B1.
XX 27-FEB-2001.
XX 30-DEC-1997; 97US-00000805.
XX 27-JUN-1990; 90US-00544218.
XX 08-APR-1993; 93US-00057957.
XX (BLOO-) BLOOD CENT RES FOUND INC.
XX Baxter-Lowe LA, Gorski JA;
XX WPI; 2001-217923/22.
XX Human leukocyte antigen typing by amplifying a sample followed by
XX sequence specific oligonucleotide hybridization with labeled
XX oligonucleotide probes that hybridize with a series of known control DNA
XX sequences.
XX Disclosure; COL 11-14; 16pp; English.
XX The present invention relates to human leukocyte antigen (HLA) typing.
XX The method involves detecting polymorphic residues by sequence specific
XX oligonucleotide probe hybridization (SSOPH) with labeled oligonucleotide
XX probes
XX Sequence 12 BP; 1 A; 4 C; 6 G; 1 T; 0 U; 0 Other;
XX Query Match 28.6%; Score 8; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 3.1e+02;
XX Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX 1 CGGGCCCT 8
XX 4 CGGGCCCT 11
XX Db
XX RESULT 589
XX AAF92695
XX ID AAF92695 standard; DNA; 12 BP.
XX AC AAF92695;
XX DT 16-MAY-2001 (first entry)
XX DE HLA-DR allele group typing probe #10.
XX OS Homo sapiens.
XX PN US6194147-B1.
XX PD 27-FEB-2001.
XX PF 30-DEC-1997; 97US-00000805.
XX PR 27-JUN-1990; 90US-00544218.
XX PR 08-APR-1993; 93US-00057957.
XX PA (BLOO-) BLOOD CENT RES FOUND INC.
XX PI Baxter-Lowe LA, Gorski JA;
XX WPI; 2001-217923/22.
XX Human leukocyte antigen typing by amplifying a sample followed by
XX sequence specific oligonucleotide hybridization with labeled
XX oligonucleotide probes that hybridize with a series of known control DNA
XX sequences.

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XX Disclosure; COL 11-14; 16pp; English.
XX The present invention relates to human leukocyte antigen (HLA) typing.
XX The method involves detecting polymorphic residues by sequence specific
XX oligonucleotide probe hybridization (SSOPH) with labeled oligonucleotide
XX probes
XX Sequence 12 BP; 1 A; 4 C; 6 G; 1 T; 0 U; 0 Other;
XX Query Match 28.6%; Score 8; DB 1; Length 12;
XX Best Local Similarity 100.0%; Pred. No. 3.1e+02;
XX Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX 1 CGGGCCCT 8
XX 4 CGGGCCCT 11
XX Db
XX RESULT 590
XX ABL42258
XX ID ABL42258 standard; DNA; 12 BP.
XX AC ABL42258;
XX DT 01-JUL-2002 (first entry)
XX DE Plant cis-regulatory sequence from barley ABA.
XX DNA fingerprinting; cancer; agriculture; breeding; PCR; primer;
XX gene family; ds.
XX Hordeum sp.
XX WO200162967-A2.
XX 30-AUG-2001.
XX 19-FEB-2001; 2001WO-IL000151.
XX 22-FEB-2000; 2000IL-00134660.
XX 02-JUL-2000; 2000IL-00137124.
XX 20-AUG-2000; 2000IL-00137959.
XX (GENE-) GENENA LTD.
XX (AGRI-) AGRIC RES ORG NEWE YA'AR RES CENTE.
XX Vidler B, Katzir N;
XX WPI; 2002-239525/29.
XX Polymerase chain reaction based method of DNA fingerprinting, useful for
XX analyzing genes, e.g. for identifying genes involved in cancer formation,
XX involves using a mix of primers that match the conserved regions of a
XX gene family.
XX Example; Page 17; 28pp; English.
XX The invention relates to a polymerase chain reaction (PCR) based method
XX of DNA fingerprinting, comprising using primers that match the conserved
XX regions of a gene family. The method is useful for gene expression
XX analysis of any cell or tissue, or for the performance of DNA
XX fingerprinting analysis of the same organism in order that one will
XX reveal the function of a gene that produced differential product between
XX genotypes. The method is also useful for identifying PCR reactions that
XX contain a gene of interest in a gene family reverse transcriptase (RT)-
XX PCR expression analysis. The method is also useful for identifying genes
XX that belong to a gene family that might be involved in cancer formation.
XX The method is particularly useful for comparing genomic sequences. These
XX are also applicable in agriculture (e.g. to mark useful genes to assist
XX breeding). The current sequence represents a plant cis-regulatory
XX sequence. This is used in DNA fingerprinting using primers or a mix of
XX primers that match the sequence of ubiquitous cis-acting regulatory

```

CC elements  
 XX Sequence 12 BP; 1 A; 4 C; 5 G; 2 T; 0 U; 0 Other;  
 SQ Query Match 28.6%; Score 8; DB 1; Length 12;  
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 6 CCGTACGTG 13  
 |||||  
 DB 1 CCGTACGTG 8

RESULT 591  
 ABX10158  
 ID ABX10158 standard; cDNA; 12 BP.  
 XX  
 AC ABX10158;  
 XX  
 DT 27-JAN-2003 (first entry)  
 XX  
 DE Human TIGR/Myocilin variant cDNA deletion 3' flank #1.  
 XX  
 KW Human; ss; TIGR; MYOC; Myocilin; Glaucoma; blindness;  
 KW trabecular meshwork inducible glucocorticoid response protein;  
 KW retinal degenerative disease; RRD; retinitis pigmentosa;  
 KW macular degeneration; Usher syndrome; cardiovascular disease;  
 KW congenital heart disease; myocardial ischemia; stroke;  
 KW acute endocarditis; hypertensive heart disease; arrhythmia;  
 KW arteriosclerotic heart disease.  
 KW  
 XX Homo sapiens.  
 OS  
 XX W0200282969-A2.  
 PM  
 XX 24-OCT-2002.  
 XX  
 XX 11-DEC-2001; 2001WO-US048622.  
 XX  
 XX 05-APR-2001; 2001US-0281442P.  
 PR 23-JUL-2001; 2001US-0306889P.  
 XX  
 XX (KONG/) KONG T H.  
 PA  
 XX Kong TH;  
 PI  
 XX WPI; 2003-058597/05.  
 DR  
 XX  
 XX  
 PT Determining the presence or the risk of having glaucoma, retinal  
 PT degenerative or cardiovascular diseases in a subject, comprises  
 PT generating transcriptional or translational profiles based on myocilin  
 PT nucleic acids and proteins.  
 PT  
 XX Disclosure; Fig 4c; 55pp; English.  
 PS  
 XX The invention relates to determining whether a subject has or is at risk  
 CC of developing glaucoma, retinal degenerative disease, or a cardiovascular  
 CC disease, comprising generating a transcriptional or translational profile  
 CC (i.e. 'fingerprint') in the subject or in a sample obtained from the  
 CC subject, based on the expression of the different myocilin (MYOC, also  
 CC known as trabecular meshwork inducible glucocorticoid responsive protein,  
 CC TIGR) mRNA species or polypeptide forms, where a difference in the  
 CC profile relative to that in a normal subject indicates that the subject  
 CC has or is at risk of developing the above-mentioned diseases. Also  
 CC included are: (1) a method for establishing MYOC genetic population  
 CC profile in a population of individuals having glaucoma, retinal  
 CC degenerative disease, or a cardiovascular disease; (2) a method for  
 CC pharmacogenomically selecting a therapy to administer to an individual  
 CC having glaucoma, retinal degenerative disease, or a cardiovascular  
 CC disease, comprising determining MYOC genetic profile of an individual and  
 CC comparing the individual's MYOC genetic profile to MYOC genetic  
 CC population profile, to select a therapy for administration to the  
 CC individual; and a kit for determining whether a subject has or is likely

CC to develop glaucoma, retinal degenerative disease, or a cardiovascular  
 CC disease, comprising a probe or primer which hybridises to the MYOC  
 CC nucleic acid, or an antibody or peptide probe capable of specifically  
 CC binding to the novel MYOC polypeptide(s), and instructions for use. The  
 CC method is useful for the prognosis and/or diagnosis of glaucoma, retinal  
 CC degenerative diseases (RRD) or cardiovascular diseases (e.g. blindness,  
 CC retinitis pigmentosa, macular degeneration, Usher syndrome, congenital  
 CC heart disease, myocardial ischemia, stroke, acute endocarditis,  
 CC hypertensive heart disease, arrhythmia and arteriosclerotic heart  
 CC disease), and in screening assays for the identification of therapeutics  
 CC and the evaluation of their effectiveness for treating the above-  
 CC mentioned diseases in a subject. The present sequence represents the 3'  
 CC flanking sequence surrounding the deletion present in a MYOC cDNA variant  
 XX

SQ Sequence 12 BP; 4 A; 3 C; 3 G; 2 T; 0 U; 0 Other;  
 Query Match 28.6%; Score 8; DB 1; Length 12;  
 Best Local Similarity 100.0%; Pred. No. 3.1e+02;  
 Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 20 GAGTCCAG 27  
 |||||  
 DB 2 GAGTCCAG 9

RESULT 592  
 AAX09580/c  
 ID AAX09580 standard; DNA; 15 BP.  
 XX  
 AC AAX09580;  
 XX  
 DT 24-MAR-1999 (first entry)  
 XX  
 DE Human biallelic polymorphic marker upstream primer #460.  
 XX  
 KW Polymorphism; biallelic; human; forensic; paternity testing; disease;  
 KW detection; phenotypic typing; characteristic; infection; hereditary;  
 KW autoimmune disease; cancer; inflammation; drug; therapy; medication;  
 KW treatment; marker; primer; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 XX W09820165-A2.  
 PN  
 XX 14-MAY-1998.  
 PD  
 XX  
 XX 05-NOV-1997; 97WO-US020313.  
 PF  
 XX  
 XX 06-NOV-1996; 96US-0030455P.  
 PR  
 XX (WHEED ) WHITEHEAD INST BIOLOGICAL RES.  
 PA  
 XX Lander ES, Wang D, Hudson T;  
 PI  
 XX WPI; 1998-286974/25.  
 DR  
 XX  
 XX  
 PT New isolated nucleic acid segments from the human genome - used for  
 PT determining polymorphic forms for use in e.g. forensics, paternity  
 PT testing or phenotypic typing for disease.  
 PT  
 XX Claim 15; Page 207; 310pp; English.  
 PS  
 XX AAX09121-X10268 are allele-specific oligonucleotide primers used in the  
 CC isolation of various biallelic polymorphic markers found in the human  
 CC genome (represented in AAX10269-X12937). These primers can be used in a  
 CC method for determining polymorphic forms in an individual for use in e.g.  
 CC forensics, paternity testing or for phenotypic typing for diseases such  
 CC as agammaglobulinemia, diabetes insipidus, Lesch-Nyhan syndrome, muscular  
 CC dystrophy, Wiskott-Aldrich syndrome, Fabry's disease, familial  
 CC hypercholesterolemia, polycystic kidney disease, hereditary  
 CC spherocytosis, von Willebrand's disease, tuberous sclerosis, hereditary  
 CC hemorrhagic telangiectasia, familial colonic polyposis, Ehlers-Danlos

CC syndrome, osteogenesis imperfecta, acute intermittent porphyria,  
 CC autoimmune diseases, inflammation, cancer, diseases of the nervous  
 CC system, infection by pathogenic microorganisms, and characteristics such  
 CC as longevity, appearance (e.g. baldness, obesity), strength, speed,  
 CC endurance, fertility, and susceptibility or receptivity to particular  
 CC drugs or therapeutic treatments. The isolated polymorphic nucleic acid  
 CC segments can also be used to produce medicaments for the treatment or  
 CC prophylaxis of such diseases

XX Sequence 15 BP; 0 A; 7 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 28.6%; Score 8; DB 1; Length 15;

Best Local Similarity 100.0%; Pred. No. 4e+02; 0; Indels 0; Gaps 0;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 15 ACAGGAGG 22

Db 14 ACAGGAGG 7

RESULT 593

ABV65206 standard; cDNA; 11 BP.

XX ABV65206;

XX 21-OCT-2002 (first entry)

XX Human skin EST 2992.

XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrheic;

XX immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;

XX psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX Homo sapiens.

XX WO200253774-A2.

XX 11-JUL-2002.

XX 20-DEC-2001; 2001WO-EP015179.

XX 03-JAN-2001; 2001DE-01000127.

XX (HENK) HENKEL KGAA.

XX Petersehn D, Conradt M, Hofmann K;

XX WPI; 2002-590638/63.

XX In vitro identification of skin-expressed genes, useful for determining

XX e.g. skin cancer.

XX Disclosure; Page 108; 1345pp; German.

XX The invention relates to in vitro identification (M1) of genes expressed

XX in the skin of humans or animals by subjecting a mixture of genetically

XX encoded factors from skin, to serial analysis of gene expression (SAGE)

XX so as to identify skin-expressed genes and quantify their expression.

XX (M1) is useful for identifying genes involved in skin homeostasis; to

XX determine skin homeostasis and to test agent (A) that maintains or

XX disorders skin homeostasis or that can be used for treating skin

XX disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;

XX ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;

XX rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the

XX skin. The present sequence is that of a human expressed sequence tag

XX (EST) of the invention

XX Sequence 11 BP; 2 A; 4 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 27.9%; Score 7.8; DB 1; Length 11;

Best Local Similarity 81.8%; Pred. No. 3e+02;

Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 7 CTACGTGTACA 17

Db 1 CTTCCTGTACA 11

RESULT 594

ABK93985/c

XX ABK93985 standard; DNA; 11 BP.

XX ABK93985;

XX 21-OCT-2002 (first entry)

XX Human CYP3A5 gene polymorphic reference DNA sequence #20.

XX Human; CYP3A5; polymorphism; cancer; cardiovascular disease; diabetes;

XX AIDS; African American; forensic marker; pharmacological; cytostatic;

XX antidiabetic; anti-HIV; gene therapy; ds.

XX Homo sapiens.

XX WO200253775-A2.

XX 11-JUL-2002.

XX 21-DEC-2001; 2001WO-EP015290.

XX 28-DEC-2000; 2000EP-00128627.

XX 28-DEC-2000; 2000US-0258684P.

XX 29-DEC-2000; 2000US-0258952P.

XX 16-JAN-2001; 2001EP-00100172.

XX 18-JAN-2001; 2001US-0262859P.

XX 16-AUG-2001; 2001EP-00118884.

XX 16-AUG-2001; 2001US-0312825P.

XX (EPID-) EPIDANDROS BIOTECHNOLOGIE AG.

XX Wojnowski L, Haberl M, Husterl E;

XX WPI; 2002-583628/62.

XX Novel CYP3A5 polymorphic useful for diagnosis and treatment of cancer,

XX cardiovascular diseases, diabetes and AIDS, and for identifying

XX polymorphisms.

XX Example 2; Page 49; 138pp; English.

XX The present invention relates to a new CYP3A5 polymorphic encoding a

XX polypeptide, where the polymorphic is capable of hybridizing to a

XX CYP3A5 gene. The invention is useful in an in vitro method for

XX identifying a polymorphism. The invention is also useful for useful for a

XX diagnosing a disorder related to the presence of a molecular variant of a

XX CYP3A5 or susceptibility to such a disorder, where the disorder is

XX cancer, or diseases including cardiovascular diseases, diabetes and AIDS.

XX The invention can further be used for the preparation of a diagnostic

XX composition for diagnosing a disease in a subject having a genome

XX comprising a variant allele of the CYP3A5 gene, where the subject is an

XX African American. The molecules of the invention are as forensic markers

XX and in pharmacological studies. The present nucleic acid sequence, as

XX described in the invention

XX Sequence 11 BP; 4 A; 1 C; 5 G; 1 T; 0 U; 0 Other;

Query Match 27.9%; Score 7.8; DB 1; Length 11;

Best Local Similarity 81.8%; Pred. No. 3e+02;

Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 6 CCTACGTGTAC 16

Db 11 CCTTCCTGTAC 1

RESULT 595  
 AB123374/C  
 ID AB123374 standard; DNA; 12 BP.  
 XX  
 XX  
 AC AB123374;  
 XX  
 XX 22-FEB-2002 (first entry)  
 DE Oligonucleotide primer SEQ ID NO 323347 for detecting SNP TSC0031342.  
 XX  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 OS Homo sapiens.  
 XX MO200177384-A2.  
 XX 18-OCT-2001.  
 PD 06-APR-2001; 2001WO-IB000713.  
 XX 07-APR-2000; 2000DE-01019173.  
 XX (EPiG-) EPIGENOMICS AG.  
 PA Olek A, Piepenbrock C, Berlin K;  
 PI WPI; 2001-657177/75.  
 DR WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 XX Claim 1; SEQ ID NO 323347; 29pp + Sequence Listing; German.  
 XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 12 BP; 2 A; 1 C; 6 G; 3 T; 0 U; 0 Other;  
 Query Match 27.9%; Score 7.8; DB 1; Length 12;  
 Best Local Similarity 81.8%; Pred. No. 3.4e+02;  
 Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 5 CCTACGCTA 15  
 Db 11 CCTACGCTA 1  
 RESULT 596  
 AB18399/C  
 ID AB18399 standard; DNA; 12 BP.  
 XX  
 XX  
 AC AB18399;  
 XX  
 XX 22-FEB-2002 (first entry)  
 DE Oligonucleotide primer SEQ ID NO 318372 for detecting SNP TSC0028620.  
 XX  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 OS Homo sapiens.  
 XX MO200177384-A2.  
 XX 18-OCT-2001.  
 PD 06-APR-2001; 2001WO-IB000713.  
 XX 07-APR-2000; 2000DE-01019173.  
 XX (EPiG-) EPIGENOMICS AG.  
 PA Olek A, Piepenbrock C, Berlin K;  
 PI WPI; 2001-657177/75.  
 DR WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 XX Claim 1; SEQ ID NO 318372; 29pp + Sequence Listing; German.  
 XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 12 BP; 3 A; 6 C; 0 G; 3 T; 0 U; 0 Other;  
 Query Match 27.9%; Score 7.8; DB 1; Length 12;  
 Best Local Similarity 81.8%; Pred. No. 3.4e+02;  
 Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 12 TGTACGGGAG 22  
 Db 12 TGTACGGGAG 2  
 RESULT 597  
 ABF18031/C  
 ID ABF18031 standard; DNA; 13 BP.  
 XX  
 XX  
 AC ABF18031;  
 XX  
 XX 21-FEB-2002 (first entry)  
 DE Oligonucleotide SEQ ID NO 118028 for detecting SNP TSC0029509.  
 XX  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 OS Homo sapiens.  
 XX MO200177384-A2.  
 XX 18-OCT-2001.  
 PD 06-APR-2001; 2001WO-IB000713.  
 XX 07-APR-2000; 2000DE-01019173.

PA (EPIC-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 118028; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 13 BP; 3 A; 7 C; 0 G; 3 T; 0 U; 0 Other;  
 XX  
 Query Match 27.9%; Score 7.8; DB 1; Length 13;  
 Best Local Similarity 81.8%; Pred. No. 3.8e+02;  
 Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 XX  
 QY 12 TGTACAGGAG 22  
 DB 13 TGTACAGGAG 3  
 XX  
 RESULT 598  
 ABF18030  
 ID ABF18030 standard; DNA; 13 BP.  
 XX  
 AC ABF18030;  
 XX  
 DT 21-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide SEQ ID NO 118027 for detecting SNP TSC0029509.  
 XX  
 KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIC-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 118027; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 13 BP; 3 A; 0 C; 7 G; 3 T; 0 U; 0 Other;  
 XX  
 Query Match 27.9%; Score 7.8; DB 1; Length 13;  
 Best Local Similarity 81.8%; Pred. No. 3.8e+02;  
 Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 XX  
 QY 12 TGTACAGGAG 22  
 DB 1 TGTACAGGAG 11  
 XX  
 RESULT 599  
 ABF19283/C  
 ID ABF19283 standard; DNA; 13 BP.  
 XX  
 AC ABF19283;  
 XX  
 DT 21-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide SEQ ID NO 119280 for detecting SNP TSC0029787.  
 XX  
 KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIC-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 119280; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 13 BP; 4 A; 3 C; 1 G; 4 T; 0 U; 1 Other;

Query Match	Score 7.8	DB 1	Length 13
Best Local Similarity	69.2%		Pred. No. 3.8e+02
Matches	9	Conservative	1, Mismatches 3, Indels 0, Gaps 0
QY	12	TGTACAGGAGTC	24
DB	13	TGTAAACGTAGTY	1
RESULT 600			
ABF44695/C	ABF44695 standard; DNA, 13 BP.		
ID	ABF44695 standard; DNA, 13 BP.		
XX	ABF44695;		
AC	21-FEB-2002 (first entry)		
XX			
DE	Oligonucleotide SEQ ID NO 144692 for detecting SNP TSC0036396.		
XX			
XX	SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;		
KM	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;		
KM	central nervous system; gastrointestinal; respiratory; immune; metabolic.		
XX			
OS	Homo sapiens.		
XX			
PN	WO200177384-A2.		
XX			
PD	18-OCT-2001.		
XX			
PF	06-APR-2001; 2001WO-IB000713.		
XX			
PR	07-APR-2000; 2000DE-01019173.		
XX			
PA	(EPIC-) EPIGENOMICS AG.		
PI	Olek A, Piepenbrock C, Berlin K;		
XX			
DR	WPI; 2001-657177/75.		
XX			
PT	Set of oligonucleotides, useful for diagnosis and cell typing, is		
PT	designed to detect single-nucleotide polymorphisms and cytosine		
PT	methylation status.		
XX			
PS	Claim 1; SEQ ID NO 144692; 29pp + Sequence Listing; German.		
XX			
CC	This invention describes novel oligonucleotide primers or peptide nucleic		
CC	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)		
CC	and cytosine methylation status in chemically pretreated genomic DNA. The		
CC	oligonucleotides are used for diagnosis and/or prognosis of cancer and a		
CC	range of diseases including immune system, gastrointestinal, respiratory,		
CC	central nervous system, cardiovascular and metabolic disorders. The		
CC	oligomers are also used for detecting cell type differentiation. ABC00010		
CC	-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABT00010-ABT99989		
CC	represent the oligomers described in the invention. NOTE: The sequence		
CC	data for this patent did not form part of the printed specification, but		
CC	was obtained in electronic format from WIPO at		
CC	ftp.wipo.int/pub/published_pct_sequences		
XX			
SEQ	Sequence 13 BP; 4 A; 4 C; 1 G; 3 T; 0 U; 1 Other;		
Query Match	27.9%	Score 7.8	DB 1; Length 13;
Best Local Similarity	69.2%	Pred. No. 3.8e+02;	
Matches	9;	Conservative	1; Mismatches 3; Indels 0; Gaps 0
QY	12	TGTACAGGAGTC	24
DB	13	TGTAGACGTAGTY	1
RESULT 601			
ABF19282	ABF19282 standard; DNA, 13 BP.		

XX	ABF19282;
AC	
XX	21-FEB-2002 (first entry)
DT	
XX	Oligonucleotide SEQ ID NO 119279 for detecting SNP TSC0029787.
DE	
XX	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW	central nervous system; gastrointestinal; respiratory; immune; metabolic.
KX	
OS	Homo sapiens.
XX	
FM	WO200177384-A2.
PD	18-OCT-2001.
PF	06-APR-2001; 2001WO-IB000713.
PR	07-APR-2000; 2000DE-01019173.
PA	(EPIG-) EPIGENOMICS AG.
PI	Olek A, Piepenbrock C, Berlin K,
PL	WPI; 2001-657177/75.
DR	
XX	Set of oligonucleotides, useful for diagnosis and cell typing, is
PT	designed to detect single-nucleotide polymorphisms and cytosine
PN	methylation status.
XX	
PS	Claim 1; SEQ ID NO 119279; 29pp + Sequence Listing; German.
CC	This invention describes novel oligonucleotide primers or peptide nucleic
CC	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC	and cytosine methylation status in chemically pretreated genomic DNA. The
CC	oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC	range of diseases including immune system, gastrointestinal, respiratory,
CC	central nervous system, cardiovascular and metabolic disorders. The
CC	oligomers are also used for detecting cell type differentiation. ABC00010
CC	-ABG9989, ABH00010-ABH9989, ABH00010-ABH9989 and ABI00010-ABI82073
CC	represent the oligomers described in the invention. NOTE: The sequence
CC	data for this patent did not form part of the printed specification, but
CC	was obtained in electronic form from WIPO at
CC	ftp.wipo.int/pub/published_pcr_sequences
CC	
SQ	Sequence 13 BF; 4 A; 1 C; 3 G; 4 T; 0 U; 1 Other;
Query Match	27.9%; Score 7.8; DB 1; Length 13;
Best Local Similarity	69.2%; Pred.No. 3.8e+02;
Matches	9; Conservative 1; Mismatches 3; Indels 0; Gaps 0
XY	
	12 TGTAAGGAGTGC 24
	1 TGTAACTACTGY 13
Db	
RESULT 602	
ABF44694	
ID	ABF44694 standard; DNA; 13 BP.
XX	
AC	ABF44694;
XX	
DE	21-FEB-2002 (first entry)
XX	
XX	Oligonucleotide SEQ ID NO 144691 for detecting SNP TSC0036396.
XX	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KX	central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX	
OS	Homo sapiens.





CC oligomers are also used for detecting cell type differentiation. ABC000010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 13 BP; 3 A; 4 C; 1 G; 5 T; 0 U; 0 Other;

Query Match 27.9%; Score 7.8; DB 1; Length 13;  
Best Local Similarity 81.8%; Pred. No. 3.8e+02;  
Matches 9; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 7 CTAAGTGTACA 17  
DB 3 CTCCTTTACA 13

RESULT 605  
ADB01855/c  
ID ADB01855 standard; DNA; 25 BP.  
XX  
AC ADB01855;  
XX  
XX 20-NOV-2003 (first entry)  
XX  
XX Human MD23 scanning oligonucleotide SEQ ID 2841.  
DE

XX Cytostatic; immunostimulant; gene therapy; vaccine; human;  
XX zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;  
XX chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
XX developmental disorder; ss.  
XX

OS Homo sapiens.

XX  
XX  
XX EPI281758-A2.  
XX

XX 05-FEB-2003.  
XX

XX 30-JUL-2002; 2002EP-00016874.  
XX

XX 02-AUG-2001; 2001US-00922181.  
XX

XX (AEOM-) AECOMICA INC.  
XX

XX Shannon M, Gu Y, Nguyen C;  
XX

XX WPI; 2003-423107/40.  
XX

XX  
XX New zinc finger-containing proteins and nucleic acids, useful in  
XX manufacturing a medicament for treating or preventing a disorder  
XX associated with decreased or increased expression or activity of MD23,  
XX MD24, MD27 or MD212, e.g. cancer.  
XX

XX Example 8; SEQ ID NO 2841; 103pp; English.  
XX

XX The present invention relates to novel human zinc finger-containing  
XX proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is  
XX encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
XX MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
XX 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
XX or in manufacturing a medicament for treating or preventing a disorder  
XX associated with decreased or increased expression or activity of MD23,  
XX MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
XX acids and proteins are also useful for diagnosing or monitoring a disease  
XX caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
XX acids can also be used as probes to detect and characterize gross  
XX alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are  
XX useful in constructing microarrays for measuring gene expression. The  
XX proteins are useful as therapeutic agents for gene therapy or as  
XX vaccines. The present sequence was used to illustrate the invention.  
XX

SQ Sequence 25 BP; 3 A; 7 C; 10 G; 5 T; 0 U; 0 Other;

Query Match 27.9%; Score 7.8; DB 1; Length 25;  
Best Local Similarity 63.2%; Pred. No. 5.3e+02;  
Matches 12; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 4 GCCCTACGTGTACAGGAG 22  
DB 23 GCACCTCGTCGACACGTAG 5

RESULT 606  
ADB01856/c  
ID ADB01856 standard; DNA; 25 BP.  
XX  
AC ADB01856;  
XX  
XX 20-NOV-2003 (first entry)  
XX

XX Human MD23 scanning oligonucleotide SEQ ID 2842.  
DE

XX Cytostatic; immunostimulant; gene therapy; vaccine; human;  
XX zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;  
XX chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
XX developmental disorder; ss.  
XX

OS Homo sapiens.

XX  
XX  
XX EPI281758-A2.  
XX

XX 05-FEB-2003.  
XX

XX 30-JUL-2002; 2002EP-00016874.  
XX

XX 02-AUG-2001; 2001US-00922181.  
XX

XX (AEOM-) AECOMICA INC.  
XX

XX Shannon M, Gu Y, Nguyen C;  
XX

XX WPI; 2003-423107/40.  
XX

XX  
XX New zinc finger-containing proteins and nucleic acids, useful in  
XX manufacturing a medicament for treating or preventing a disorder  
XX associated with decreased or increased expression or activity of MD23,  
XX MD24, MD27 or MD212, e.g. cancer.  
XX

XX Example 8; SEQ ID NO 2842; 103pp; English.  
XX

XX The present invention relates to novel human zinc finger-containing  
XX proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is  
XX encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
XX MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
XX 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
XX or in manufacturing a medicament for treating or preventing a disorder  
XX associated with decreased or increased expression or activity of MD23,  
XX MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
XX acids and proteins are also useful for diagnosing or monitoring a disease  
XX caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
XX acids can also be used as probes to detect and characterize gross  
XX alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are  
XX useful in constructing microarrays for measuring gene expression. The  
XX proteins are useful as therapeutic agents for gene therapy or as  
XX vaccines. The present sequence was used to illustrate the invention.  
XX

SQ Sequence 25 BP; 3 A; 7 C; 10 G; 5 T; 0 U; 0 Other;

Query Match 27.9%; Score 7.8; DB 1; Length 25;  
Best Local Similarity 63.2%; Pred. No. 5.3e+02;  
Matches 12; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

QY 4 GCCCTACGTGTACAGGAG 22  
DB 22 GCACCTCGTCGACACGTAG 4

RESULT 607  
ADB01854/c  
ID ADB01854 standard; DNA; 25 BP.  
XX  
AC ADB01854;  
XX  
DT 20-NOV-2003 (first entry)  
XX  
DE Human MD23 scanning oligonucleotide SEQ ID 2840.  
XX  
KM Cytostatic; immunostimulant; gene therapy; vaccine; human;  
XX zinc finger protein; MD23; MD27; MD212; chromosome 7q22.1;  
XX chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
XX developmental disorder; ss.  
XX  
OS Homo sapiens.  
XX  
PN EPI281758-A2.  
XX  
PD 05-FEB-2003.  
XX  
PF 30-JUL-2002; 2002EP-00016874.  
XX  
PR 02-AUG-2001; 2001US-00922181.  
XX  
PA (AEOM-) AEOMICA INC.  
XX  
PI Shannon M, Gu Y, Nguyen C;  
XX  
DR WPI; 2003-423107/40.  
XX  
PT New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MD23,  
PT MD24, MD27 or MD212, e.g. cancer.  
XX  
PS Example 8; SEQ ID NO 2840; 103bp; English.  
XX  
CC The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is  
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MD23,  
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MD23, MD24, MD27, or MD212 genetic loci. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.  
XX  
SQ Sequence 25 BP; 4 A; 7 C; 9 G; 5 T; 0 U; 0 Other;  
XX  
Query Match 27.9%; Score 7.8; DB 1; Length 25;  
Best Local Similarity 63.2%; Pred. No. 5.3e+02;  
Matches 12; Conservative 0; Mismatches 7; Indels 0; Gaps 0;  
XX  
QY 4 GCCCTACGTGTACAGGAG 22  
DB 24 GCACCTGCTGCACACCTAG 6

RESULT 608  
ADB01853/c  
ID ADB01853 standard; DNA; 25 BP.  
XX  
AC ADB01853;  
XX  
DT 20-NOV-2003 (first entry)  
XX  
DE Human MD23 scanning oligonucleotide SEQ ID 2843.  
XX  
KM Cytostatic; immunostimulant; gene therapy; vaccine; human;  
XX zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;  
XX chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
XX developmental disorder; ss.  
XX  
OS Homo sapiens.  
XX  
PN EPI281758-A2.  
XX  
PD 05-FEB-2003.  
XX  
PF 30-JUL-2002; 2002EP-00016874.  
XX  
PR 02-AUG-2001; 2001US-00922181.  
XX  
PA (AEOM-) AEOMICA INC.  
XX  
PI Shannon M, Gu Y, Nguyen C;  
XX  
DR WPI; 2003-423107/40.  
XX  
PT New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MD23,  
PT MD24, MD27 or MD212, e.g. cancer.  
XX  
PS Example 8; SEQ ID NO 2839; 103bp; English.  
XX  
CC The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is  
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MD23,  
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MD23, MD24, MD27, or MD212 genetic loci. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.  
XX  
SQ Sequence 25 BP; 4 A; 7 C; 10 G; 4 T; 0 U; 0 Other;  
XX  
Query Match 27.9%; Score 7.8; DB 1; Length 25;  
Best Local Similarity 63.2%; Pred. No. 5.3e+02;  
Matches 12; Conservative 0; Mismatches 7; Indels 0; Gaps 0;  
XX  
QY 4 GCCCTACGTGTACAGGAG 22  
DB 25 GCACCTGCTGCACACCTAG 7

XX Homo sapiens.  
 OS  
 XX  
 XX EP1281758-A2.  
 PN  
 XX  
 XX 05-FEB-2003.  
 PD  
 XX  
 XX 30-JUL-2002; 2002EP-00016874.  
 PF  
 XX  
 XX 02-AUG-2001; 2001US-00922181.  
 PR  
 XX  
 XX (AECM-) AEOMICA INC.  
 PA  
 XX  
 XX Shannon M, Gu Y, Nguyen C;  
 PI  
 XX  
 XX WPI; 2003-423107/40.  
 DR  
 XX  
 XX  
 XX New zinc finger-containing proteins and nucleic acids, useful in  
 PT manufacturing a medicament for treating or preventing a disorder  
 PT associated with decreased or increased expression or activity of MD23,  
 PT MD24, MD27 or MD212, e.g. cancer.  
 XX  
 XX  
 XX Example 8; SEQ ID NO 2843; 103pp; English.  
 PS  
 XX  
 XX The present invention relates to novel human zinc finger-containing  
 CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is  
 CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
 CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
 CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
 CC or in manufacturing a medicament for treating or preventing a disorder  
 CC associated with decreased or increased expression or activity of MD23,  
 CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
 CC acids and proteins are also useful for diagnosing or monitoring a disease  
 CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
 CC acids can also be used as probes to detect and characterize gross  
 CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are  
 CC useful in constructing microarrays for measuring gene expression. The  
 CC proteins are useful as therapeutic agents for gene therapy or as  
 CC vaccines. The present sequence was used to illustrate the invention.  
 CC  
 XX  
 XX  
 XX Sequence 25 BP; 4 A; 7 C; 9 G; 5 T; 0 U; 0 Other;  
 SQ

Query Match 27.9%; Score 7.8; DB 1; Length 25;  
 Best Local Similarity 63.2%; Pred. No. 5.3e+02;  
 Matches 12; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

OY 4 GCCCTACGCTGACAGGAG 22  
 |||||  
 DB 21 GCACCTCGCTGCACACCTAG 3

RESULT 610  
 ADB01858/C  
 ID ADB01858 standard; DNA; 25 BP.  
 XX  
 XX ADB01858;  
 AC  
 XX  
 XX 20-NOV-2003 (first entry)  
 DT  
 XX  
 XX Human MD23 scanning oligonucleotide SEQ ID 2844.  
 DE  
 XX  
 XX Cytostatic; immunostimulant; gene therapy; vaccine; human;  
 KW zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;  
 KW chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
 KW developmental disorder; ss.  
 KW  
 XX  
 XX Homo sapiens.  
 OS  
 XX  
 XX EP1281758-A2.  
 PN  
 XX  
 XX 05-FEB-2003.  
 PD  
 XX  
 XX 30-JUL-2002; 2002EP-00016874.  
 PF

XX  
 XX 02-AUG-2001; 2001US-00922181.  
 PR  
 XX  
 XX (AECM-) AEOMICA INC.  
 PA  
 XX  
 XX Shannon M, Gu Y, Nguyen C;  
 PI  
 XX  
 XX WPI; 2003-423107/40.  
 DR  
 XX  
 XX  
 XX New zinc finger-containing proteins and nucleic acids, useful in  
 PT manufacturing a medicament for treating or preventing a disorder  
 PT associated with decreased or increased expression or activity of MD23,  
 PT MD24, MD27 or MD212, e.g. cancer.  
 XX  
 XX  
 XX Example 8; SEQ ID NO 2844; 103pp; English.  
 PS  
 XX  
 XX The present invention relates to novel human zinc finger-containing  
 CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is  
 CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
 CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
 CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
 CC or in manufacturing a medicament for treating or preventing a disorder  
 CC associated with decreased or increased expression or activity of MD23,  
 CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
 CC acids and proteins are also useful for diagnosing or monitoring a disease  
 CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
 CC acids can also be used as probes to detect and characterize gross  
 CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are  
 CC useful in constructing microarrays for measuring gene expression. The  
 CC proteins are useful as therapeutic agents for gene therapy or as  
 CC vaccines. The present sequence was used to illustrate the invention.  
 CC  
 XX  
 XX  
 XX Sequence 25 BP; 5 A; 6 C; 9 G; 5 T; 0 U; 0 Other;  
 SQ

Query Match 27.9%; Score 7.8; DB 1; Length 25;  
 Best Local Similarity 63.2%; Pred. No. 5.3e+02;  
 Matches 12; Conservative 0; Mismatches 7; Indels 0; Gaps 0;

OY 4 GCCCTACGCTGACAGGAG 22  
 |||||  
 DB 20 GCACCTCGCTGCACACCTAG 2

RESULT 611  
 AAF47954  
 ID AAF47954 standard; DNA; 15 BP.  
 XX  
 XX AAF47954;  
 AC  
 XX  
 XX 30-MAR-2001 (first entry)  
 DT  
 XX  
 XX IGFBP3 oligonucleotide #1374.  
 DE  
 XX

XX Antisense therapy; antiproliferative; antiinflammatory; antipsoiatic;  
 KW cytostratic; dermatological; cardiac; vitruclide; ophthalmological; keloid;  
 KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pilyriasis;  
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilatis;  
 KW growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruda;  
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
 KW hyperneovascular condition; hyperplasia; kidney disease;  
 KW neovascular condition of the retina; ss.  
 KW  
 XX  
 XX Homo sapiens.  
 OS  
 XX  
 XX WO200078341-A1.  
 PN  
 XX  
 XX 28-DEC-2000.  
 PD  
 XX  
 XX 21-JUN-2000; 2000WO-AU000693.  
 PF  
 XX  
 XX 21-JUN-1999; 99US-0140345P.  
 PR  
 XX  
 XX (MURD-) MURDOCH CHILDRENS RES INST.  
 PA

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XX Wright CJ, Werther GA, Edmondson SR;
XX WPI; 2001-041421/05.
XX
XX
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
XX inhibits or reduces growth factor mediated cell proliferation and/or
XX inflammation.
XX
XX Example 7, Page 53; 201pp; English.
XX
XX The present invention relates to a method for ameliorating the effects of
XX skin disorders. The method comprises contacting the skin with an
XX antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1
XX receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
XX inhibiting or reducing growth factor mediated cell proliferation,
XX inflammation and/or other disorders. The present sequence is an
XX oligonucleotide which can be used to design the antisense
XX oligonucleotides of the present invention (see AAF45151 and AAF45153-
XX F45161). The method is useful for ameliorating the effects of psoriasis,
XX ichthyosis, pityriasis, ruba, pilaris, seborrhea, keloids, keratosis,
XX neoplasia, scleroderma, warts, benign growths, cancers of the skin, a
XX hypervascular condition such as a neovascular condition of the retina,
XX brain or skin, growth factor-mediated malignancies, other sclerotic
XX disease, kidney disease, hyperproliferation of the inside of blood
XX vessels or any other hyperplasia
XX
XX Sequence 15 BP; 3 A; 8 C; 2 G; 2 T; 0 U; 0 Other;
XX
XX Query Match 27.1%; Score 7.6; DB 1; Length 15;
XX Best Local Similarity 71.4%; Pred. No. 4.8e+02;
XX Matches 10; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
XX
XX 5 CCTACGCTACAG 18
XX 2 CACTCCCGTACAG 15
XX
XX
XX RESULT 612
XX AAF47955
XX ID AAF47955 standard; DNA; 15 BP.
XX AC AAF47955;
XX
XX 30-MAR-2001 (first entry)
XX
XX IGFBP3 oligonucleotide #1375.
XX
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX cyostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX growth factor mediated cell proliferation; ichthyosis; seborrhea; ruba;
XX keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX hypervascular condition; hyperplasia; kidney disease;
XX neovascular condition of the retina; ss.
XX
XX Homo sapiens.
XX
XX WO200078341-A1.
XX
XX 28-DEC-2000.
XX
XX 21-JUN-2000; 2000WO-AU000693.
XX
XX 21-JUN-1999; 99US-0140345P.
XX
XX (MURD-) MURDOCH CHILDRENS RES INST.
XX
XX Wright CJ, Werther GA, Edmondson SR;
XX WPI; 2001-041421/05.
XX

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XX
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
XX inhibits or reduces growth factor mediated cell proliferation and/or
XX inflammation.
XX
XX Example 7, Page 53; 201pp; English.
XX
XX The present invention relates to a method for ameliorating the effects of
XX skin disorders. The method comprises contacting the skin with an
XX antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1
XX receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
XX inhibiting or reducing growth factor mediated cell proliferation,
XX inflammation and/or other disorders. The present sequence is an
XX oligonucleotide which can be used to design the antisense
XX oligonucleotides of the present invention (see AAF45151 and AAF45153-
XX F45161). The method is useful for ameliorating the effects of psoriasis,
XX ichthyosis, pityriasis, ruba, pilaris, seborrhea, keloids, keratosis,
XX neoplasia, scleroderma, warts, benign growths, cancers of the skin, a
XX hypervascular condition such as a neovascular condition of the retina,
XX brain or skin, growth factor-mediated malignancies, other sclerotic
XX disease, kidney disease, hyperproliferation of the inside of blood
XX vessels or any other hyperplasia
XX
XX Sequence 15 BP; 3 A; 7 C; 2 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 27.1%; Score 7.6; DB 1; Length 15;
XX Best Local Similarity 71.4%; Pred. No. 4.8e+02;
XX Matches 10; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
XX
XX 5 CCTACGCTACAG 18
XX 1 CACTCCCGTACAG 14
XX
XX
XX RESULT 613
XX AAF47956
XX ID AAF47956 standard; DNA; 15 BP.
XX AC AAF47956;
XX
XX 30-MAR-2001 (first entry)
XX
XX IGFBP3 oligonucleotide #1376.
XX
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
XX cyostatic; dermatological; cardiant; virucide; ophthalmological; keloid;
XX skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
XX IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
XX growth factor mediated cell proliferation; ichthyosis; seborrhea; ruba;
XX keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
XX hypervascular condition; hyperplasia; kidney disease;
XX neovascular condition of the retina; ss.
XX
XX Homo sapiens.
XX
XX WO200078341-A1.
XX
XX 28-DEC-2000.
XX
XX 21-JUN-2000; 2000WO-AU000693.
XX
XX 21-JUN-1999; 99US-0140345P.
XX
XX (MURD-) MURDOCH CHILDRENS RES INST.
XX
XX Wright CJ, Werther GA, Edmondson SR;
XX WPI; 2001-041421/05.
XX
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
XX inhibits or reduces growth factor mediated cell proliferation and/or
XX inflammation.
XX

```

```

PT inflammation.
XX
XX Example 7; Page 53; 201pp; English.
XX
CC The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for insulin-like Growth Factor (IGF)-1
CC receptor, IGF binding protein (IGFBP)-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, seborrhea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor mediated malignancies, other sclerotic
CC disease, kidney disease, hyperproliferation of the inside of blood
CC vessels or any other hyperplasia
XX
SQ Sequence 15 BP; 3 A; 6 C; 3 G; 3 T; 0 U; 0 Other;

Query Match      27.1%; Score 7.6; DB 1; Length 15;
Best Local Similarity 71.4%; Pred. No. 4.8e+02;
Matches 10; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 7 CTACGCTGACAGG 20
Db 2 CTCCTCGTACAGTG 15

RESULT 614
ABA80105/c
ID ABA80105 standard; DNA; 17 BP.
XX
XX ABA80105;
AC
XX
XX 24-JAN-2002 (first entry)
DT
XX
XX HBA2 mutation correcting oligonucleotide SEQ ID NO: 2951.
DE
XX
XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
XX retinoblastoma; BRCA1; BRCA2; CTR; cystic fibrosis; cancer; Factor V;
XX cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;
XX adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;
XX haemophilia; alpha thalassemia; haemoglobin alpha locus 1; MLH1; APOE;
XX mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;
XX familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;
XX UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
XX Alzheimer's disease; cyostatic; antistickling; antianaemic; haemostatic;
XX antileptic; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200173002-A2.
PN
XX
XX 04-OCT-2001.
PD
XX
XX 27-MAR-2001; 2001WO-US009761.
PF
XX
XX 27-MAR-2000; 2000US-0192176P.
PR 27-MAR-2000; 2000US-0192179P.
PR 01-JUN-2000; 2000US-0208538P.
PR 30-OCT-2000; 2000US-0244989P.
XX
XX (UYDE ) UNIV DELAWARE.
PA
XX
XX Kniec EB, Gamper HB, Rice MC;
XX
XX WPI; 2001-639230/73.
PI
XX
XX Oligonucleotide for targeted alterations of genetic sequences and for
XX treating cystic fibrosis, comprises at least one mismatch and chemical
PT

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PT modification.
XX
XX Claim 7; Page 208; 294pp; English.
XX
CC The present invention provides single-stranded oligonucleotides which can
CC be used for the targeted alteration of genomic sequences, where the
CC oligonucleotide has at least one mismatch compared with the genomic
CC sequence to be altered. In particular, these sequences are directed at
CC the following genes: adenosine deaminase, p53, beta-globin,
CC retinoblastoma, BRCA1, BRCA2, CTR, cyclin-dependent kinase inhibitor 2A
CC (CDKN2A), APC, Factor V, Factor VII, Factor IX, haemoglobin alpha locus
CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,
CC apolipoprotein E (APOE), LDL receptor (LDLR), UDP-glucuronosyltransferase
CC (UGT1), amyloid precursor protein (APP), presenilin-1 (PSEN1) and
CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases
CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,
CC haemophilia, hypercholesterolaemia, thalassemia, sickle cell anaemia,
CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and
CC various syndromes. The present sequence is one of the gene correcting
CC oligonucleotides of the invention
XX
SQ Sequence 17 BP; 3 A; 4 C; 7 G; 3 T; 0 U; 0 Other;

Query Match      27.1%; Score 7.6; DB 1; Length 17;
Best Local Similarity 71.4%; Pred. No. 5.2e+02;
Matches 10; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 6 CCTACGCTGACAGG 19
Db 15 CTCCTCGTACAGG 2

RESULT 615
ABA80104
ID ABA80104 standard; DNA; 17 BP.
XX
XX ABA80104;
AC
XX
XX 24-JAN-2002 (first entry)
DT
XX
XX HBA2 mutation correcting oligonucleotide SEQ ID NO: 2950.
DE
XX
XX Human; gene therapy; adenosine deaminase deficiency; p53; beta-globin;
XX retinoblastoma; BRCA1; BRCA2; CTR; cystic fibrosis; cancer; Factor V;
XX cyclin-dependent kinase inhibitor 2A; CDKN2A; melanoma; APC; HBA1; HBA2;
XX adenomatous polyposis of the colon; Factor VII; Factor IX; thrombosis;
XX haemophilia; alpha thalassemia; haemoglobin alpha locus 1; MLH1; APOE;
XX mismatch repair; MSH2; MSH6; hyperlipidaemia; apolipoprotein E; LDLR;
XX familial hypercholesterolaemia; UGT1; syndrome; APP; PSEN1; antisense;
XX UDP-glucuronosyltransferase; amyloid precursor protein; presenilin-1;
XX Alzheimer's disease; cyostatic; antistickling; antianaemic; haemostatic;
XX antileptic; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200173002-A2.
PN
XX
XX 04-OCT-2001.
PD
XX
XX 27-MAR-2001; 2001WO-US009761.
PF
XX
XX 27-MAR-2000; 2000US-0192176P.
PR 27-MAR-2000; 2000US-0192179P.
PR 01-JUN-2000; 2000US-0208538P.
PR 30-OCT-2000; 2000US-0244989P.
XX
XX (UYDE ) UNIV DELAWARE.
PA
XX
XX Kniec EB, Gamper HB, Rice MC;
XX
XX WPI; 2001-639230/73.
PI
XX
XX Oligonucleotide for targeted alterations of genetic sequences and for
XX
PT

```

PT treating cystic fibrosis, comprises at least one mismatch and chemical  
 PT modification.  
 XX  
 XX  
 PS Claim 7, Page 208, 294pp; English.  
 CC The present invention provides single-stranded oligonucleotides which can  
 CC be used for the targeted alteration of genomic sequences, where the  
 CC oligonucleotide has at least one mismatch compared with the genomic  
 CC sequence to be altered. In particular, these sequences are directed at  
 CC the following genes: adenosine deaminase, p53, beta-globin,  
 CC retinoblastoma, BRCA1, BRCA2, CTR, cyclin-dependent kinase inhibitor 2A  
 CC (CDKN2A), APC, Factor VII, Factor IX, haemoglobin alpha locus  
 CC 1 (HBA1), haemoglobin alpha locus 2 (HBA2), MLH1, MSH2, MSH6,  
 CC Apolipoprotein B (APOB), LDL receptor (LDLR), UDP-glucuronosyltransferase  
 CC (UGT1), amyloid precursor protein (APP), presenilin-1 (PSEN1) and  
 CC presenilin-2 (PSEN2). These can be used in the gene therapy of diseases  
 CC such as cancer, adenosine deaminase deficiency, cystic fibrosis,  
 CC haemophilia, hypercholesterolaemia, thalassemia, sickle cell anaemia,  
 CC Alzheimer's disease, melanoma, adenomatous polyposis of the colon and  
 CC various syndromes. The present sequence is one of the gene correcting  
 CC oligonucleotides of the invention  
 SQ Sequence 17 BP; 3 A; 7 C; 4 G; 3 T; 0 U; 0 Other;  
 QY Query Match 27.1%; Score 7.6; DB 1; Length 17;  
 Best Local Similarity 71.4%; Pred. No. 5.2e+02;  
 Matches 10; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
 DB 3 CCTCCCTGGACAG 16  
 QY 6 CCTACGTGTACAG 19  
 DB 3 CCTCCCTGGACAG 16  
 RESULT 616  
 ADD71263  
 ID ADD71263 standard; DNA; 10 BP.  
 XX  
 AC ADD71263;  
 XX  
 DT 15-JAN-2004 (first entry)  
 XX  
 DE Mouse ET gene 5' splice donor site from intron 4.  
 XX  
 KW Mouse; ethanolaninephosphate cytidyl transferase; ET; ds;  
 KW splice donor site; antilipemic; cardiant; anorectic;  
 KW phosphatidylethanolamine; Zellweger's syndrome; lipid-related disease;  
 KW cardiovascular disease; atherosclerosis; obesity.  
 XX  
 OS Mus musculus.  
 XX  
 PN US2003194795-A1.  
 XX  
 PD 16-OCT-2003.  
 XX  
 PF 21-MAR-2002; 2002US-00101957.  
 XX  
 PR 21-MAR-2002; 2002US-00101957.  
 XX  
 PA (BAKO/) BAKOVIC M.  
 XX (POLO/) POLOJNENKO A.  
 XX  
 PI Bakovic M, Polojnenko A;  
 XX  
 DR WPI; 2003-84457/78.  
 XX  
 PT New gene encoding a protein having ethanolaninephosphate  
 PT cytidyltransferase activity, useful for treating Zellweger's syndrome, or  
 PT lipid-related diseases such as cardiovascular diseases and obesity.  
 XX  
 PS Example 1; Page 6; 22pp; English.  
 CC The invention relates to a mouse gene encoding a protein having  
 CC ethanolaninephosphate cytidyltransferase (ET) activity appearing as

CC ADD71226, a degenerate variant of the ET gene, or a sequence that  
 CC hybridises to the complement of the ET gene under stringent conditions.  
 CC Also included is a promoter of a human ethanolaninephosphate  
 CC cytidyltransferase gene appearing as ADD71227. The gene and promoter are  
 CC useful for producing a transgenic animal, and for identifying,  
 CC preventing, and treating diseases (by gene therapy) related to  
 CC inappropriate phosphatidylethanolamine production, e.g. Zellweger's  
 CC syndrome, or lipid-related diseases such as cardiovascular diseases,  
 CC atherosclerosis and obesity. The present sequence is a mouse ET gene 5'  
 CC splice donor site.  
 SQ Sequence 10 BP; 3 A; 1 C; 4 G; 2 T; 0 U; 0 Other;  
 QY Query Match 26.4%; Score 7.4; DB 1; Length 10;  
 Best Local Similarity 88.9%; Pred. No. 3.3e+02;  
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 DB 1 TACAGGTAG 9  
 QY 14 TACAGGTAG 22  
 DB 1 TACAGGTAG 9  
 RESULT 617  
 AAZ8386/C  
 ID AAZ8386 standard; DNA; 10 BP.  
 XX  
 AC AAZ8386;  
 XX  
 DT 07-APR-2000 (first entry)  
 XX  
 DE Metastatic breast tumour cell upregulated transcript tag #3120.  
 XX  
 KW Human; metastatic breast tumour tissue; breast cancer; tag; primer;  
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;  
 KW antimetastatic; vaccine; diagnosis; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO965928-A2.  
 XX  
 PD 23-DEC-1999.  
 XX  
 PF 18-JUN-1999; 99WO-US013647.  
 XX  
 PR 19-JUN-1998; 98US-0089853P.  
 PR 19-JUN-1998; 98US-0089897P.  
 PR 19-JUN-1998; 98US-0090039P.  
 PR 19-JUN-1998; 98US-0090040P.  
 PR 19-JUN-1998; 98US-0090041P.  
 XX  
 PA (GENZ ) GENZYME CORP.  
 XX (ROBE/) ROBERTS B L.  
 XX (SHAN/) SHANKARA S.  
 XX  
 PI Roberts BL, Shankara S;  
 XX  
 DR WPI; 2000-106079/09.  
 XX  
 PT Isolated polynucleotides differentially expressed between metastatic and  
 PT non-metastatic breast cancer cells; useful for diagnosis, prevention and  
 PT treatment of cancer.  
 XX  
 PS Claim 1; Page 142; 219pp; English.  
 CC  
 CC AAZ80767 to AAZ83941 represent tags corresponding to distinct transcripts  
 CC that are preferentially transcribed in the metastatic breast tumour  
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AAZ83942  
 CC to AAZ86677 represent tags corresponding to distinct transcripts that are  
 CC preferentially transcribed in the primary or non-metastatic breast tumour  
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These  
 CC transcripts can be used for diagnosis, prognosis, monitoring and  
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is  
 CC by standard immunoassays or hybridisation/amplification reactions.

Compounds that modulate expression of the transcripts are potentially useful for treatment of (metastatic) breast cancer, while promoters from the transcripts are used to direct expression, in selected cell types, of e.g. therapeutic genes (also ribozymes or antisense sequences), particularly an antigen-encoding sequence for use in gene or cell-based vaccines. Polypeptides encoded by the transcripts are also useful in vaccines, for diagnosing breast cancer and for raising specific antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic agents. Host cells that produce the polypeptides can be used to expand and isolate populations of educated, antigen-specific immune effector cells, e.g. cytotoxic T lymphocytes, and these used for adoptive immunotherapy.

Sequence 10 BP; 3 A; 1 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 26.4%; Score 7.4; DB 1; Length 10;  
Best Local Similarity 88.9%; Pred. No. 3.3e+02;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

9 ACGGTGACA 17  
10 ACGTGTACA 2

RESULT 618  
AAFP37857  
ID AAFP37857 standard; DNA; 10 BP.  
XX  
AC AAFP37857;  
XX  
DT 23-MAR-2001 (first entry)  
XX  
DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:4596.  
XX  
XX Yeast; Saccharomyces cerevisiae; characterisation: cell cycle; NORF; nor previously assigned open reading frame; nonannotated ORF; SAGE; serial analysis of gene expression; antifungal; tag; identification; linker; PCR primer; ds.  
XX  
OS Saccharomyces cerevisiae.  
XX  
PN WO200077214-A2.  
XX  
PD 21-DEC-2000.  
XX  
PF 14-JUN-2000; 2000WO-US016223.  
XX  
PR 16-JUN-1999; 99US-0035032.  
XX  
PA (UNO) UNIV JOHNS HOPKINS.  
XX  
PI Velulescu V, Vogelstein B, Kinzler K;  
XX  
DR WPI; 2001-061874/07.  
XX  
PT Yeast gene coding sequences comprising NORF genes with serial analysis of gene expression (SAGE) tags, useful for studying, monitoring and affecting phases of the cell cycle.  
XX  
PS Example; Page 164; 41pp; English.  
XX  
CC The present invention describes an isolated DNA molecule comprising a coding sequence of a yeast gene selected from a group of 745 NORF (not previously assigned open reading frame; or nonannotated ORF) genes comprising a SAGE (serial analysis of gene expression) tag. Also described are: (1) a method (M1) of using NORF genes to affect the cell cycle comprising administering a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from log phase, S phase and G2/M; (2) a method (M2) for screening candidate antifungal drugs comprising: (a) contacting a test substance with a yeast cell; and (b) monitoring expression of a NORF gene whose expression varies as in M1, where a test substance, which modifies the expression of the yeast gene is a candidate antifungal drug; (3) a method (M3) for

identifying human genes which are involved in cell cycle progression comprising contacting human DNA with a probe which comprises at least 10 contiguous nucleotides of a NORF gene whose expression varies as in M1; and (4) a method (M4) for identifying a candidate drug as a member of a class of drugs having a characteristic effect on gene expression in a yeast cell comprising contacting a yeast cell with a candidate drug and monitoring expression in the yeast cell of at least 1 NORF gene whose expression is affected by the class of drugs. The NORF genes may be used to study, monitor and affect phases of the cell cycle, the differentially expressed genes may be used as markers of phases of the cell cycle. The methods may be used to identify candidate drugs which affect the cell cycle and for identification of antifungal drugs. AAFP3268 to AAFP4064 represent SAGE tags used in the exemplification of the present invention. CC AAFP3262 to AAFP3267 represent linker and PCR primers used in the SAGE method, in the exemplification of the present invention

Sequence 10 BP; 2 A; 2 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 26.4%; Score 7.4; DB 1; Length 10;  
Best Local Similarity 88.9%; Pred. No. 3.3e+02;  
Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

11 GTGTACAGG 19  
2 GTGTACAGC 10

RESULT 619  
ABH73586  
ID ABH73586 standard; DNA; 12 BP.  
XX  
AC ABH73586;  
XX  
DT 22-FEB-2002 (first entry)  
XX  
DE Oligonucleotide primer SEQ ID NO 273571 for detecting SNP TSC0003234.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
OS Homo sapiens.  
XX  
PN WO200177384-A2.  
XX  
PD 18-OCT-2001.  
XX  
PF 06-APR-2001; 2001WO-IB000713.  
XX  
PR 07-APR-2000; 2000DE-01019173.  
XX  
PA (EPIC-) EPIGENOMICS AG.  
XX  
PI Olek A, Piepenbrock C, Berlin K;  
XX  
DR WPI; 2001-657177/75.  
XX  
PT Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.  
XX  
PS Claim 1; SEQ ID NO 273571; 29pp + Sequence Listing; German.  
XX  
CC This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010 CC ABC99988, ABF00010-ABF99988, ABH00010-ABH99988 and AB100010-AB182073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but



CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pcr\_sequences  
 XX  
 SQ Sequence 12 BP; 2 A; 3 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 26.4%; Score 7.4; DB 1; Length 12;  
 Best Local Similarity 88.9%; Pred. No. 4.1e+02;  
 Matches 8; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 8 TACGCTGAC 16  
 DB 3 TACGCTGAC 11

RESULT 620  
 AAQ87648  
 ID AAQ87648 standard; DNA; 18 BP.

AC AAQ87648;  
 XX  
 DT 19-DEC-1995 (first entry)

DE Chick antisense oligonucleotide to p75 NGFR gene.

XX Oligonucleotide; antisense; down-regulation; expression; trauma;  
 XX nerve growth factor receptor; neurodegenerative disease; Alzheimer's;  
 XX Parkinson's; Huntington's disease; multiple sclerosis;  
 XX vascular ischemia; stroke; ss.

OS Synthetic.

PN WO9511253-A1.

PD 27-APR-1995.

PF 18-OCT-1994; 94WO-AU000631.

PR 18-OCT-1993; 93AU-00001870.

PA (HALL-) HALL INST MEDICAL RES WALTER & ELIZA.

PI Barrett GL;

DR WPI; 1995-170186/22.

XX Anti:sense oligonucleotide(s) to nerve growth factor receptor gene - of  
 PT p75 NGFR, down-regulate expression and enhance neurone survival; for  
 PT treating cerebral palsy, Alzheimer's disease, stroke, etc.

PS Example 3; Page 35; 59pp; English.

XX The sequence of an antisense oligonucleotide to the chick nerve growth  
 CC factor receptor (NGFR) gene which was used as a control for the survival  
 CC of mouse dorsal root ganglial (DRG) cells treated with oligonucleotides  
 CC AAQ87641-2. These oligonucleotides are antisense sequences directed at  
 CC down-regulating the expression of the gene encoding the mouse p75 NGFR  
 CC gene. The oligonucleotides can be used in methods to treat  
 CC neurodegenerative conditions associated with disease and/or trauma such  
 CC as Alzheimer's, Parkinson's or Huntington's disease, multiple sclerosis,  
 CC vascular ischemia associated with stroke, etc

SQ Sequence 18 BP; 3 A; 4 C; 7 G; 4 T; 0 U; 0 Other;

Query Match 26.4%; Score 7.4; DB 1; Length 18;  
 Best Local Similarity 64.7%; Pred. No. 5.8e+02;  
 Matches 11; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

OY 11 GTGTACAGGAGTCCAG 27  
 DB 2 GTGACTCGCTGTACAG 18

RESULT 621

AB123376  
 ID AB123376 standard; DNA; 12 BP.

AC AB123376;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 323349 for detecting SNP TSC0031342.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

PN WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB000713.

PR 07-APR-2000; 2000DE-01019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

DR WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.

PS Claim 1; SEQ ID NO 323349; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. AB000010  
 CC ABC99988, ABF00010-ABF99988, ABH00010-ABH99988 and ABJ00010-ABJ82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pcr\_sequences

SQ Sequence 12 BP; 2 A; 2 C; 6 G; 2 T; 0 U; 0 Other;

Query Match 25.7%; Score 7.2; DB 1; Length 12;  
 Best Local Similarity 75.0%; Pred. No. 4.6e+02;  
 Matches 9; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 8 TACGCTGACAG 19  
 DB 1 TACGCTGAGG 12

RESULT 622  
 ABH73584/C  
 ID ABH73584 standard; DNA; 12 BP.

AC ABH73584;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 273569 for detecting SNP TSC0003234.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.  
 XX WO200177384-A2.  
 XX 18-OCT-2001.  
 PD 06-APR-2001; 2001WO-IB000713.  
 XX 07-APR-2000; 2000DE-01019173.  
 XX (EPG-) EPIGENOMICS AG.  
 PA Olek A, Piepenbrock C, Berlin K;  
 PI WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 273569; 29pp + Sequence listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABG9989, AB00010-ABP9989, ABH0010-ABH9989 and AB10010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC date for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 CC  
 SQ Sequence 12 BP; 2 A; 2 C; 4 G; 4 T; 0 U; 0 Other;  
 Query Match 25.7%; Score 7.2; DB 1; Length 12;  
 Best Local Similarity 75.0%; Pred. No. 4.6e+02;  
 Matches 9; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 6 CCTACGTGTACA 17  
 Db 12 CGTACACGTACA 1  
 RESULT 623  
 AA241746  
 ID AA241746 standard; DNA; 12 BP.  
 XX  
 AC AA241746;  
 XX  
 DT 20-MAR-2003 (revised)  
 DT 21-JAN-2000 (first entry)  
 XX  
 DE Organic material detecting primer 107.  
 XX  
 KW Amplification; polymerase chain reaction; PCR; microorganism; compost;  
 KW detection; pollutant; soil; food; agricultural chemical; polymer;  
 KW organochlorine; primer; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN DE19914461-A1.  
 XX  
 PD 21-OCT-1999.  
 XX  
 PF 30-MAR-1999; 99DE-01014461.  
 XX  
 PR 31-MAR-1998; 98JP-00087651.  
 PR 16-MAR-1999; 99JP-00069694.  
 XX  
 PA (SAOL) SANYO ELECTRIC CO LTD.

PA (NORQ) SOC TECHNO-INNOVATION AGRIC FORESTY & FI.  
 PI Inoue T;  
 XX  
 DR WPI; 1999-592157/51.  
 XX  
 PT Novel polymerase chain reaction method, for differentiating between  
 PT microorganisms and for detecting contaminants.  
 XX  
 PS Example 1; Page 19; 78pp; German.  
 XX  
 CC This invention describes a novel method for the amplification of DNA  
 CC comprising (i) preparing many primers (p) with different probabilities of  
 CC amplification and (ii) simultaneous polymerase chain reaction (PCR) of  
 CC many different DNA using these primers. The method is used (i) to  
 CC differentiate between different microorganisms in a mixed population and  
 CC (ii) to determine presence/absence of an impurity (pollutant), or its  
 CC concentration, in e.g., soil, foods, compost etc., typically metals,  
 CC agricultural chemicals, polymers, organochlorine compounds etc. A  
 CC particular use is monitoring composting of organic material.  
 CC Amplification with many primers produces a lot of information, so  
 CC reliability of the test is improved, and many samples may be tested  
 CC quickly. AA241640-241835 represent the primers described in the method of  
 CC the invention. (Updated on 20-MAR-2003 to correct PR field.)  
 CC  
 SQ Sequence 12 BP; 5 A; 2 C; 4 G; 1 T; 0 U; 0 Other;  
 Query Match 25.7%; Score 7.2; DB 1; Length 12;  
 Best Local Similarity 75.0%; Pred. No. 4.6e+02;  
 Matches 9; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 QY 11 GTGTACAGGAG 22  
 Db 1 GAGTACACGAG 12  
 RESULT 624  
 AA241530  
 ID AA241530 standard; DNA; 12 BP.  
 XX  
 AC AA241530;  
 XX  
 DT 19-JAN-2000 (first entry)  
 XX  
 DE Microbe detection in organic waste arbitrarily primed PCR primer #107.  
 XX  
 KW Microbe; detection; organic waste; arbitrarily primer PCR;  
 KW random amplified polymorphic DNA; amplification; PCR primer; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN JP11276176-A.  
 XX  
 PD 12-OCT-1999.  
 XX  
 PF 31-MAR-1998; 98JP-00087652.  
 XX  
 PR 31-MAR-1998; 98JP-00087652.  
 XX  
 PA (SAOL) SANYO ELECTRIC CO LTD.  
 PA (NORI-) ZH NORIN SUISEN SENTAN GIUTSU SANGYO.  
 XX  
 DR WPI; 1999-626940/54.  
 XX  
 PT Amplification of a DNA fragment - in order to establish the state of  
 PT existence of a microbe.  
 XX  
 PS Claim 1; Page 9; 40pp; Japanese.  
 XX  
 CC A method has been developed for the amplification of a DNA fragment in  
 CC which amplification is carried out on the DNA fragments of a number of  
 CC different DNAs. The method comprises a PCR reaction repeatedly carrying  
 CC out a heat-denaturing step, a primer annealing step and a polymerase

CC extending step, to amplify the DNA fragments of a plural of different  
 CC DNAs. The method can detect the existence of a microbe in organic waste.  
 CC AA41424 to AA41639 represent PCR primers used in random amplified  
 CC polymorphic DNA arbitrarily primed PCR, for the detection of microbes in  
 CC organic waste  
 XX

SC Sequence 12 BP; 5 A; 2 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 25.7%; Score 7.2; DB 1; Length 12;  
 Best Local Similarity 75.0%; Pred. No. 4.6e+02;  
 Matches 9; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 11 GTGTACAGGAG 22  
 DB 1 GAGTACACGAG 12

RESULT 625  
 AAC97881  
 ID AAC97881 standard; DNA; 12 BP.

AC AAC97881;  
 DT 28-FEB-2001 (first entry)

DE Primer used to illustrate DNA amplification method SEQ ID 107.

KW Primer; amplification; selective; ss.

OS Synthetic.

PN JP2000270867-A.

PD 03-OCT-2000.

PF 19-MAR-1999; 99JP-00076844.

PR 19-MAR-1999; 99JP-00076844.

PA (SAOL) SANYO ELECTRIC CO LTD.

(NORI) ZH NORIN SUISAN SENTAN GIUTSU SANGYO.

DE WPI; 2001-011047/02.

PT Amplification of a DNA fragment and its apparatus.

PS Example 1; Page 9; 32pp; Japanese.

CC This invention relates to a method for amplifying a DNA fragment. The  
 CC method comprises successive repetitions of heat-denaturing, annealing of  
 CC a primer and an extending step using a DNA polymerase. The method makes  
 CC use of a cDNA pool in which the primer is one primer or a pair of primer  
 CC sets and has an amplification probability which allows it to amplify a  
 CC DNA fragment from a limited number of the cDNAs among the DNA pool (where  
 CC the limited number is in the range of 1 to 25). Also included in the  
 CC invention are apparatus used for carrying out the method, a primer and a  
 CC DNA polymerase and a kit used for amplifying a DNA fragment. The method  
 CC can be used to amplify a limited number of cDNAs from a pool in which a  
 CC wide variety of cDNAs are present. Oligonucleotides AAC97775 - AAC97990  
 CC represent primers used in an example illustrating the method of the  
 CC invention  
 XX

SC Sequence 12 BP; 5 A; 2 C; 4 G; 1 T; 0 U; 0 Other;

Query Match 25.7%; Score 7.2; DB 1; Length 12;  
 Best Local Similarity 75.0%; Pred. No. 4.6e+02;  
 Matches 9; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 11 GTGTACAGGAG 22  
 DB 1 GAGTACACGAG 12

RESULT 626  
 ABH73580/c  
 ID ABH73580 standard; DNA; 12 BP.  
 XX

AC ABH73580;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 273565 for detecting SNP TSC0003234.

KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KM Central nervous system; gastrointestinal; respiratory; immune; metabolic.

OS Homo sapiens.

PN WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-1B000713.

PR 07-APR-2000; 2000DE-01019173.

PA (EPIC-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

DE WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX

PS Claim 1; SEQ ID NO 273565; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. AAC00010  
 CC -ABG9989, ABF0010-ABF9989, ABH0010-ABH9989 and AET0010-ABE82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX

SC Sequence 12 BP; 2 A; 1 C; 4 G; 5 T; 0 U; 0 Other;

Query Match 25.7%; Score 7.2; DB 1; Length 12;  
 Best Local Similarity 75.0%; Pred. No. 4.6e+02;  
 Matches 9; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 6 CCGAGGTGACA 17  
 DB 12 CATACACGTACA 1

RESULT 627  
 ABH30582/c  
 ID ABH30582 standard; DNA; 13 BP.

AC ABH30582;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 230559 for detecting SNP TSC0056234.

KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM Central nervous system; gastrointestinal; respiratory; immune; metabolic.

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XX OS Homo sapiens.
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX DR WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX PS Claim 1; SEQ ID NO 230559; 29pp + Sequence Listing; German.
XX SQ Sequence 13 BP; 4 A; 2 C; 3 G; 4 T; 0 U; 0 Other;

CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

SQ Sequence 13 BP; 4 A; 2 C; 3 G; 4 T; 0 U; 0 Other;

Query Match      25.7%; Score 7.2; DB 1; Length 13;
Best Local Similarity 75.0%; Pred. No. 5e+02;
Matches 9; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      10 CGGTACAGCA 21
      |||||
Db      13 CGTATACAGTA 2

RESULT 628
ABC62971
ID ABC62971 standard; DNA; 13 BP.
XX
XX ABC62971;
AC
XX
XX 21-FEB-2002 (first entry)
DT
XX
XX Oligonucleotide SEQ ID NO 62988 for detecting SNP TSC0016657.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX OS
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX

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PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX PS Claim 1; SEQ ID NO 62988; 29pp + Sequence Listing; German.
XX SQ Sequence 13 BP; 3 A; 4 C; 1 G; 5 T; 0 U; 0 Other;

CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

SQ Sequence 13 BP; 3 A; 4 C; 1 G; 5 T; 0 U; 0 Other;

Query Match      25.7%; Score 7.2; DB 1; Length 13;
Best Local Similarity 75.0%; Pred. No. 5e+02;
Matches 9; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      8 TACCTTACAG 19
      |||||
Db      2 TACCTTACAG 13

RESULT 629
ABC62970/C
ID ABC62970 standard; DNA; 13 BP.
XX
XX ABC62970;
AC
XX
XX 21-FEB-2002 (first entry)
DT
XX
XX Oligonucleotide SEQ ID NO 62987 for detecting SNP TSC0016657.
DE
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX OS
XX PN WO200177384-A2.
XX PD 18-OCT-2001.
XX PF 06-APR-2001; 2001WO-IB000713.
XX PR 07-APR-2000; 2000DE-01019173.
XX PA (EPIG-) EPIGENOMICS AG.
XX PI Olek A, Piepenbrock C, Berlin K;
XX DR WPI; 2001-657177/75.
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is
XX PT designed to detect single-nucleotide polymorphisms and cytosine
XX PT methylation status.
XX PS Claim 1; SEQ ID NO 62987; 29pp + Sequence Listing; German.
XX SQ Sequence 13 BP; 3 A; 4 C; 1 G; 5 T; 0 U; 0 Other;

CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences

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CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 13 BP; 5 A; 1 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 25.7%; Score 7.2; DB 1; Length 13;  
Best Local Similarity 75.0%; Pred. No. 5e+02;  
Matches 9; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 8 TACGCTACAGG 19  
DB 12 TACCTTACACG 1

RESULT 630

ABC62969  
ID ABC62969 standard; DNA; 13 BP.

AC ABC62969;

DT 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 62986 for detecting SNP TSC0016657.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DB-01019173.

XX (EPIC-) EPICENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.

PS Claim 1; SEQ ID NO 62986; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 13 BP; 3 A; 5 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 25.7%; Score 7.2; DB 1; Length 13;

Best Local Similarity 75.0%; Pred. No. 5e+02;  
Matches 9; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 8 TACGCTACAGG 19  
DB 2 TACCTTACACG 13

RESULT 631

ABC62968/C  
ID ABC62968 standard; DNA; 13 BP.

AC ABC62968;

DT 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 62985 for detecting SNP TSC0016657.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DB-01019173.

XX (EPIC-) EPICENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.

PS Claim 1; SEQ ID NO 62985; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 13 BP; 4 A; 1 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 25.7%; Score 7.2; DB 1; Length 13;  
Best Local Similarity 75.0%; Pred. No. 5e+02;  
Matches 9; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 8 TACGCTACAGG 19  
DB 12 TACCTTACACG 1

RESULT 632

ABH30583  
ID ABH30583 standard; DNA; 13 BP.

XX ABH30583;



KW Enzymatic nucleic acid; hammerhead ribozyme; virus replication; cleavage;  
 KM cirrhosis; liver failure; hepatocellular carcinoma; interferon; cancer;  
 KM autoimmune disease; ss.  
 XX  
 XX Hepatitis C virus.  
 XX  
 XX MO955847-A2.  
 XX  
 XX  
 PD 04-NOV-1999.  
 XX  
 XX 26-APR-1999; 99WO-US009027.  
 XX  
 XX 27-APR-1998; 98US-0083217P.  
 XX 18-SEP-1998; 98US-0100842P.  
 PR 25-FEB-1999; 99US-00257608.  
 PR 23-MAR-1999; 99US-00274553.  
 XX  
 XX (RIBO-) RIBOZYME PHARM INC.  
 XX  
 PI Blatt L, Mcswigen JA, Roberts E, Pavco PA, Macejak D;  
 DR WPI; 2000-062023/05.  
 XX  
 XX Novel ribozymes for the treatment of diseases and conditions related to  
 PT hepatitis C infection.  
 PT  
 PS Claim 1; Page 59; 123pp; English.  
 XX  
 CC The present sequence represents the preferred target sequence of an  
 CC enzymatic nucleic acid, especially a hammerhead ribozyme, which cleaves  
 CC the Hepatitis C virus (HCV) RNA sequence at the base position given in  
 CC the descriptor line. The HCV sequence was screened for optimal ribozyme  
 CC target sites using a computer folding algorithm and regions of the RNA  
 CC which did not form secondary folding structures and contained potential  
 CC ribozyme cleavage sites were identified. Ribozymes were synthesized to  
 CC target these sites and their activities optimised by either varying the  
 CC length of the binding arms or by modification to prevent degradation and/or  
 CC nuclease. The ribozymes of the invention inhibit gene expression and/or  
 CC viral replication, and are used to treat diseases associated with  
 CC Hepatitis C virus (HCV) infection, e.g. cirrhosis, liver failure and  
 CC hepatocellular carcinoma. The ribozymes may be used in combination with  
 CC interferon to treat HCV infection, other infectious diseases, autoimmune  
 CC diseases, and cancer  
 CC  
 SQ Sequence 15 BP; 2 A; 2 C; 8 G; 0 T; 3 U; 0 Other;  
 QY  
 Query Match 25.7%; Score 7.2; DB 1; Length 15;  
 Best Local Similarity 75.0%; Pred. No. 5.6e+02;  
 Matches 9; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 Db 15 ACAGGAGTCCA 26  
 13 ACCTGGACTCCA 2  
 RESULT 635  
 ABX00537/c  
 ID ABX00537 standard; RNA; 15 BP.  
 XX  
 XX ABX00537;  
 AC  
 XX  
 DT 23-DEC-2002 (first entry)  
 XX  
 XX Hepatitis C virus substrate #319 for HCV hammerhead ribozyme #319.  
 DE  
 XX Enzymatic nucleic acid; RNA cleavage; Hepatitis C virus infection;  
 KM HCV ribozyme; HCV expression; HCV replication; cirrhosis; viraemia;  
 KM liver failure; hepatocellular carcinoma; HCV infection; drug therapy;  
 KM type I interferon; interferon alpha; interferon beta; cytostatic;  
 KM interferon gamma; consensus interferon; hepatotropic; antiinflammatory;  
 KM substrate; hammerhead ribozyme; HH ribozyme; ss.  
 XX  
 XX Hepatitis C virus.  
 OS

XX  
 XX US2002082225-A1.  
 PN  
 XX 27-JUN-2002.  
 PD  
 XX 23-MAR-1999; 99US-00274553.  
 PF  
 XX 23-MAR-1999; 99US-00274553.  
 PR  
 XX 23-MAR-1999; 99US-00274553.  
 XX  
 XX (BLAT/) BLATT L.  
 PA (MCSW/) MCSWIGEN J A.  
 PA (ROBE/) ROBERTS B.  
 PA (PACO/) PACO P A.  
 PA (WACE/) WACEJACK D.  
 XX  
 PI Blatt L, Mcswigen JA, Roberts E, Pavco PA, Macejack D;  
 DR WPI; 2002-617759/66.  
 XX  
 XX New ribozymes targeting RNA derived from hepatitis C virus inhibit viral  
 PT replication and are useful to treat hepatitis C virus infections and  
 PT cirrhosis, liver failure or hepatocellular carcinoma.  
 PT  
 PS Claim 1; Page 30; 80pp; English.  
 XX  
 CC The present invention relates to enzymatic nucleic acids which  
 CC specifically cleave RNA derived from Hepatitis C virus (HCV). The  
 CC enzymatic nucleic acid or ribozyme is in a hammerhead (HH) or hairpin  
 CC (HP) motif where the binding arms comprise sequences complementary to one  
 CC of the substrate sequences defined in the specification. The HCV  
 CC ribozymes are useful for modulating the expression and/or replication of  
 CC HCV. They can be used to treat cirrhosis, liver failure and/or  
 CC hepatocellular carcinoma. The HCV ribozymes are also useful for treating  
 CC a condition associated with HCV infection in conjunction with one or more  
 CC other drug therapies, particularly type I interferon, especially  
 CC interferon alpha, beta or gamma or consensus interferon. The present  
 CC sequence represents a substrate for a HCV hammerhead (HH) ribozyme. Note:  
 CC Some of the sequence data for this patent did not form part of the  
 CC printed specification. The complete sequence data for this patent was  
 CC obtained in electronic format directly from the USPO web site at  
 CC seqdata.uspo.gov/psbiddEntry.html  
 CC  
 SQ Sequence 15 BP; 2 A; 2 C; 8 G; 0 T; 3 U; 0 Other;  
 QY  
 Query Match 25.7%; Score 7.2; DB 1; Length 15;  
 Best Local Similarity 75.0%; Pred. No. 5.6e+02;  
 Matches 9; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 Db 15 ACAGGAGTCCA 26  
 13 ACCTGGACTCCA 2  
 RESULT 636  
 AAF43233  
 ID AAF43233 standard; DNA; 10 BP.  
 XX  
 XX AAF43233;  
 AC  
 XX  
 DT 23-MAR-2001 (first entry)  
 XX  
 XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:11372.  
 DE  
 XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;  
 KM nor previously assigned open reading frame; nonannotated ORF; SAGE;  
 KM serial analysis of gene expression; antifungal; tag; identification;  
 KM linker; PCR primer; ds.  
 XX  
 OS Saccharomyces cerevisiae.  
 KM  
 XX WO200077214-A2.  
 PN  
 XX 21-DEC-2000.  
 PD





PN WO200253773-A2.  
 XX  
 PD 11-JUL-2002.  
 XX  
 PF 20-DEC-2001; 2001WO-EP015178.  
 XX  
 PR 03-JAN-2001; 2001DE-01000121.  
 XX  
 PA (HENK ) HENKEL KGAA.  
 XX  
 PI Petersohn D, Conradt M, Hofmann K;  
 XX  
 DR WPI; 2002-528865/56.  
 XX  
 PT Identifying genes involved in skin stress and aging, useful e.g. in  
 PT screening for cosmetic or therapeutic agents, based on differential gene  
 PT expression.  
 XX  
 PS Claim 8; Page 50; 325pp; German.  
 XX  
 CC The invention relates to identifying (M1) genes in vitro that, in humans  
 CC or animals, are important for skin aging and/or skin stress by serial  
 CC analysis of gene expression between mixtures of transcribed and  
 CC optionally translated, genetically encoded factors (A) obtained from  
 CC young and aged skin, to identify that genes that show strong differential  
 CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is  
 CC useful for: identifying markers of skin aging and/or stress; determining  
 CC skin aging and/or stress; and identifying or determining the effects of  
 CC pharmaceutical or cosmetic agents for control of skin aging. The present  
 CC sequence is one of a group of human skin aging/stress related expressed  
 CC sequence tags (ABQ86246-ABQ87680) of the invention  
 XX  
 SQ Sequence 11 BP; 2 A; 3 C; 4 G; 2 T; 0 U; 0 Other;  
 XX  
 QY Query Match 25.0%; Score 7; DB 1; Length 11;  
 DB Best Local Similarity 100.0%; Pred. No. 4.5e+02;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 19 GGAGTCC 25  
 9 GGAGTCC 3  
 DB  
 RESULT 639  
 ABV64991/C  
 ID ABV64991 standard; CDNA; 11 BP.  
 XX  
 AC ABV64991;  
 XX  
 DT 21-OCT-2002 (first entry)  
 XX  
 DE Human skin EST 2777.  
 XX  
 DE Human; skin; dermatological; vulnary; antipsoriatic; antiseborrheic;  
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;  
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200253774-A2.  
 XX  
 PD 11-JUL-2002.  
 XX  
 PF 20-DEC-2001; 2001WO-EP015179.  
 XX  
 PR 03-JAN-2001; 2001DE-01000127.  
 XX  
 PA (HENK ) HENKEL KGAA.  
 XX  
 PI Petersohn D, Conradt M, Hofmann K;  
 XX  
 DR WPI; 2002-590638/63.  
 XX

PT In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.  
 XX  
 PS Disclosure; Page 102; 1345pp; German.  
 XX  
 CC The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 XX  
 SQ Sequence 11 BP; 2 A; 3 C; 4 G; 2 T; 0 U; 0 Other;  
 XX  
 QY Query Match 25.0%; Score 7; DB 1; Length 11;  
 DB Best Local Similarity 100.0%; Pred. No. 4.5e+02;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 19 GGAGTCC 25  
 9 GGAGTCC 3  
 DB  
 RESULT 640  
 AAZ90850  
 ID AAZ90850 standard; DNA; 15 BP.  
 XX  
 AC AAZ90850;  
 XX  
 DT 24-MAY-2000 (first entry)  
 XX  
 DE Human NR8 gene probe #78.  
 XX  
 KW Haemopoietin receptor family; NR8; antibody; diagnosis;  
 KW blood formation disorder; fusion protein; probe; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9967290-A1.  
 XX  
 PD 29-DEC-1999.  
 XX  
 PF 23-JUN-1999; 99WO-JP003351.  
 XX  
 PR 24-JUN-1998; 98JP-00214720.  
 PR 19-OCT-1998; 98JP-00297409.  
 XX  
 PA (CHUS ) CHUGAI RES INST MOLECULAR MEDICINE INC.  
 XX  
 PI Nomura H, Maeda M;  
 XX  
 DR WPI; 2000-116933/10.  
 XX  
 PT Hemopoietin receptor protein family NR8 used for diagnosis of blood  
 PT formation disorders.  
 XX  
 PS Example 1; Page 41; 176pp; Japanese.  
 XX  
 CC The invention relates to the isolation of sequences encoding human  
 CC haemopoietin receptor protein family NR8 genes. The NR8 family sequences  
 CC were initially searched for comparison on a nucleic acid database with  
 CC the nucleic acid probe sequence TGGAGYNNNTGAGY encoding the amino acid  
 CC sequence Trp-Ser-Xaa-Trp-Ser. The sequences AAZ59258-Z59300 and AAZ90816-  
 CC Z90925 represent specific examples of probe sequences used in the search.  
 CC Antibodies to the NR8 family proteins are used for the diagnosis of blood  
 CC formation disorders. Compounds identified as binding to the proteins are

CC used for the treatment of such disorders  
 XX Sequence 15 BP; 2 A; 4 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 25.0%; Score 7; DB 1; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 6e+02;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 19 GGAGTCC 25  
 |||||  
 DB 2 GGAGTCC 8

RESULT 641  
 AA290834  
 ID AA290834 standard; DNA; 15 BP.

AC AA290834;

DT 24-MAY-2000 (first entry)

DE Human NR8 gene probe #62.

KW Haemopoietin receptor family; NR8; antibody; diagnosis;

KW blood formation disorder; fusion protein; probe; ss.

OS Homo sapiens.

PN WO967290-A1.

PD 29-DEC-1999.

PF 23-JUN-1999; 99WO-JP003351.

PR 24-JUN-1998; 98JP-00214720.

PR 19-OCT-1998; 98JP-00297409.

PA (CHUS ) CHUGAI RES INST MOLECULAR MEDICINE INC.

PI Nomura H, Maeda M;

DR WPI; 2000-116933/10.

PT Hemopoietin receptor protein family NR8 used for diagnosis of blood  
 formation disorders.

PS Example 1; Page 40; 176pp; Japanese.

CC The invention relates to the isolation of sequences encoding human  
 CC haemopoietin receptor protein family NR8 genes. The NR8 family sequences  
 CC were initially searched for comparison on a nucleic acid database with  
 CC the nucleic acid probe sequence TGGAGYNNNTGGAGY encoding the amino acid  
 CC sequence Trp-Ser-Xaa-Trp-Ser. The sequences AA29258-259300 and AA290816-  
 CC 290925 represent specific examples of probe sequences used in the search.  
 CC Antibodies to the NR8 family proteins are used for the diagnosis of blood  
 CC formation disorders. Compounds identified as binding to the proteins are  
 CC used for the treatment of such disorders

SQ Sequence 15 BP; 2 A; 4 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 25.0%; Score 7; DB 1; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 6e+02;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 19 GGAGTCC 25  
 |||||  
 DB 2 GGAGTCC 8

RESULT 642  
 AA290885  
 ID AA290885 standard; DNA; 15 BP.

AC AA290885;

DT 24-MAY-2000 (first entry)

DE Human NR8 gene probe #113.

KW Haemopoietin receptor family; NR8; antibody; diagnosis;

KW blood formation disorder; fusion protein; probe; ss.

OS Homo sapiens.

PN WO967290-A1.

PD 29-DEC-1999.

PF 23-JUN-1999; 99WO-JP003351.

PR 24-JUN-1998; 98JP-00214720.

PR 19-OCT-1998; 98JP-00297409.

PA (CHUS ) CHUGAI RES INST MOLECULAR MEDICINE INC.

PI Nomura H, Maeda M;

DR WPI; 2000-116933/10.

PT Hemopoietin receptor protein family NR8 used for diagnosis of blood  
 formation disorders.

PS Example 1; Page 43; 176pp; Japanese.

CC The invention relates to the isolation of sequences encoding human  
 CC haemopoietin receptor protein family NR8 genes. The NR8 family sequences  
 CC were initially searched for comparison on a nucleic acid database with  
 CC the nucleic acid probe sequence TGGAGYNNNTGGAGY encoding the amino acid  
 CC sequence Trp-Ser-Xaa-Trp-Ser. The sequences AA29258-259300 and AA290816-  
 CC 290925 represent specific examples of probe sequences used in the search.  
 CC Antibodies to the NR8 family proteins are used for the diagnosis of blood  
 CC formation disorders. Compounds identified as binding to the proteins are  
 CC used for the treatment of such disorders

SQ Sequence 15 BP; 2 A; 4 C; 6 G; 3 T; 0 U; 0 Other;

Query Match 25.0%; Score 7; DB 1; Length 15;  
 Best Local Similarity 100.0%; Pred. No. 6e+02;  
 Matches 7; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 19 GGAGTCC 25  
 |||||  
 DB 2 GGAGTCC 8

RESULT 643

AA290922

ID AA290922 standard; DNA; 15 BP.

AC AA290922;

DT 24-MAY-2000 (first entry)

DE Human NR8 gene probe #150.

KW Haemopoietin receptor family; NR8; antibody; diagnosis;

KW blood formation disorder; fusion protein; probe; ss.

OS Homo sapiens.

PN WO967290-A1.

PD 29-DEC-1999.

PF 23-JUN-1999; 99WO-JP003351.

PR 24-JUN-1998; 98JP-00214720.  
 PR 19-OCT-1998; 98JP-00297409.  
 XX (CHUS) CHUGAI RES INST MOLECULAR MEDICINE INC.  
 PA Nomura H, Maeda M;  
 PI WPI; 2000-116933/10.  
 DR WPI; 2000-116933/10.  
 XX Hemopoietin receptor protein family NR8 used for diagnosis of blood  
 PT formation disorders.  
 PT  
 XX Example 1; Page 45; 176pp; Japanese.  
 XX  
 CC The invention relates to the isolation of sequences encoding human  
 CC haemopoietin receptor protein family NR8 genes. The NR8 family sequences  
 CC were initially searched for comparison on a nucleic acid database with  
 CC the nucleic acid probe sequence TCGAGYNNNNGAGY encoding the amino acid  
 CC sequence Trp-Ser-Xaa-Trp-Ser. The sequences AA259258-Z53300 and AA29816-  
 CC Z90925 represent specific examples of probe sequences used in the search.  
 CC Antibodies to the NR8 family proteins are used for the diagnosis of blood  
 CC formation disorders. Compounds identified as binding to the proteins are  
 CC used for the treatment of such disorders  
 CC  
 SQ Sequence 15 BP; 2 A; 4 C; 6 G; 3 T; 0 U; 0 Other;  
 QY  
 DB 19 GGAGTCC 25  
 2 GGAGTCC 8  
 RESULT 644  
 ABL46308/C  
 ID ABL46308 standard; DNA; 17 BP.  
 AC ABL46308;  
 DT 26-APR-2002 (first entry)  
 XX  
 DE Mouse scavenger receptor class B type 1 oligonucleotide SEQ ID NO:275.  
 XX  
 KW Nucleic acid accessible hybridisation site; detection; hybridisation;  
 KW characterisation; identification; nucleic acid structure; diagnosis;  
 KW PCR primer; probe; ss.  
 XX  
 OS Mus sp.  
 OS Synthetic.  
 PN WO200198537-A2.  
 PD 27-DEC-2001.  
 XX  
 PF 15-JUN-2001; 2001WO-US019401.  
 PR 17-JUN-2000; 2000US-0212308P.  
 PR 15-JUN-2001; 2001US-00212308.  
 XX  
 PA (THIR-) THIRD WAVE TECHNOLOGIES INC.  
 PI Lyamichev V, Allawi H, Dong F, Neri BP, Veneri IT;  
 XX WPI; 2002-049698/06.  
 DR  
 XX Identifying oligonucleotides hybridizing to nucleic acids containing  
 PT secondary structure, useful in clinical diagnosis, comprises identifying  
 PT primers that interact with the target to form an extension product under  
 PT amplification conditions.  
 XX  
 PS Claim 48; Fig 79A; 409pp; English.

XX The present invention describes a method for identifying oligonucleotides  
 CC with desired hybridisation properties to nucleic acid targets containing  
 CC secondary structure. The method comprises amplifying a target nucleic  
 CC acid having at least one accessible and one inaccessible site. Primers  
 CC that form an extension product are identified as the oligonucleotides  
 CC which can interact with the folded target nucleic acid. Oligonucleotides  
 CC from the present invention can be used in novel detection methods for  
 CC clinical diagnostic purposes, including the detection and identification  
 CC of pathogenic organisms (e.g. HIV). The method allows the ability to  
 CC rapidly analyse nucleic acid structures. ABL46034 to ABL46367 represent  
 CC sequences used in the exemplification of the present invention  
 CC  
 SQ Sequence 17 BP; 4 A; 5 C; 4 G; 4 T; 0 U; 0 Other;  
 QY  
 DB 11 GTGTACAGGAGTCC 25  
 15 GTGACATAGGATCC 1  
 RESULT 645  
 AAA11710/C  
 ID AAA11710 standard; DNA; 19 BP.  
 AC AAA11710;  
 DT 14-JUL-2000 (first entry)  
 DE Human prostate-specific antigen PCR primer #4.  
 XX  
 KW Prostate-specific antigen; PSA; detection; prostate cancer; PCR primer;  
 KW ss.  
 XX Homo sapiens.  
 OS JP2000069969-A.  
 PN 07-MAR-2000.  
 PD 28-AUG-1998; 98JP-00243419.  
 PF 28-AUG-1998; 98JP-00243419.  
 XX  
 PR 28-AUG-1998; 98JP-00243419.  
 XX  
 PA (HITB) HITACHI CHEM CO LTD.  
 PA (NIID-) NIPPON IDENSHI KENKUSHO KK.  
 XX  
 DR WPI; 2000-264446/23.  
 XX  
 PT A primer DNA and detection of an mRNA encoding a prostate-specific  
 PT antigen by using it.  
 XX  
 PS Claim 2; Page 9; 10pp; Japanese.  
 CC This invention describes novel primers used in a method of detecting an  
 CC mRNA encoding prostate-specific antigen (PSA) in which cDNA synthesis is  
 CC carried out by using an mRNA encoding PSA contained in a sample as the  
 CC first template and then carrying out PCR using one of four described  
 CC primers to generate a second template. A further a PCR is carried out to  
 CC generate a third template. The primer DNA is used for the specific  
 CC detection of prostate cancer. The method is sensitive and specific.  
 CC AAA11707-AAA11710 represent the PCR primers described in the method of the  
 CC invention  
 CC  
 SQ Sequence 19 BP; 4 A; 5 C; 6 G; 4 T; 0 U; 0 Other;  
 QY  
 DB 25.0%; Score 7; DB 1; Length 19;  
 Best Local Similarity 66.7%; Pred. No. 6.5e+02;  
 Matches 10; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

QY 8 TACGTGTACAGGAG 22  
 Db 19 TCCCTGTACACCAAG 5

RESULT 646  
 AAF38150  
 ID AAF38150 standard; DNA; 10 BP.

AA38150;

23-MAR-2001 (first entry)

Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:4889.

Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF; nor previously assigned open reading frame; nonannotated ORF; SAGE; serial analysis of gene expression; antifungal; tag; identification; linker; PCR primer; ds.

Saccharomyces cerevisiae.

MO200077214-A2.

21-DEC-2000.

14-JUN-2000; 2000MO-US016223.

16-JUN-1999; 99US-00335032.

(UYJO ) UNIV JOHNS HOPKINS.

Velculescu V, Vogelstein B, Kinzler K;

WPI; 2001-061874/07.

Yeast gene coding sequences comprising NORF genes with serial analysis of gene expression (SAGE) tags, useful for studying, monitoring and affecting phases of the cell cycle.

Example; Page 174; 419pp; English.

The present invention describes an isolated DNA molecule comprising a coding sequence of a yeast gene selected from a group of 745 NORF (not previously assigned open reading frame; or nonannotated ORF) genes comprising a SAGE (serial analysis of gene expression) tag. Also described are: (1) a method (M1) of using NORF genes to affect the cell cycle comprising administering a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from log phase, S phase and G2/M; (2) a method (M2) for screening candidate antifungal drugs comprising: (a) contacting a test substance with a yeast cell; and (b) monitoring expression of a NORF gene whose expression varies as in M1, where a test substance which modifies the expression of the yeast gene is a candidate antifungal drug; (3) a method (M3) for identifying human genes which are involved in cell cycle progression comprising contacting human DNA with a probe which comprises at least 10 contiguous nucleotides of a NORF gene whose expression varies as in M1; and (4) a method (M4) for identifying a candidate drug as a member of a class of drugs having a characteristic effect on gene expression in a yeast cell comprising contacting a yeast cell with a candidate drug and monitoring expression in the yeast cell of at least 1 NORF gene whose expression is affected by the class of drugs. The NORF genes may be used to study, monitor and affect phases of the cell cycle, the differentially expressed genes may be used as markers of phases of the cell cycle. The methods may be used to identify candidate drugs which affect the cell cycle and for identification of antifungal drugs. AAF3268 to AAF4064 represent SAGE tags used in the exemplification of the present invention. AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE method, in the exemplification of the present invention

Query Match 24.3%; Score 6.8; DB 1; Length 10;

Best Local Similarity 80.0%; Pred. No. 4.5e+02; Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 8 TACGTGTACA 17  
 Db 1 TCCCTGTACA 10

RESULT 647

AA40202  
 ID AAF40202 standard; DNA; 10 BP.

AA40202;

23-MAR-2001 (first entry)

Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:6941.

Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF; nor previously assigned open reading frame; nonannotated ORF; SAGE; serial analysis of gene expression; antifungal; tag; identification; linker; PCR primer; ds.

Saccharomyces cerevisiae.

MO200077214-A2.

21-DEC-2000.

14-JUN-2000; 2000MO-US016223.

16-JUN-1999; 99US-00335032.

(UYJO ) UNIV JOHNS HOPKINS.

Velculescu V, Vogelstein B, Kinzler K;

WPI; 2001-061874/07.

Yeast gene coding sequences comprising NORF genes with serial analysis of gene expression (SAGE) tags, useful for studying, monitoring and affecting phases of the cell cycle.

Example; Page 247; 419pp; English.

The present invention describes an isolated DNA molecule comprising a coding sequence of a yeast gene selected from a group of 745 NORF (not previously assigned open reading frame; or nonannotated ORF) genes comprising a SAGE (serial analysis of gene expression) tag. Also described are: (1) a method (M1) of using NORF genes to affect the cell cycle comprising administering a NORF gene whose expression varies by at least 10% between any two phases of the cell cycle selected from log phase, S phase and G2/M; (2) a method (M2) for screening candidate antifungal drugs comprising: (a) contacting a test substance with a yeast cell; and (b) monitoring expression of a NORF gene whose expression varies as in M1, where a test substance which modifies the expression of the yeast gene is a candidate antifungal drug; (3) a method (M3) for identifying human genes which are involved in cell cycle progression comprising contacting human DNA with a probe which comprises at least 10 contiguous nucleotides of a NORF gene whose expression varies as in M1; and (4) a method (M4) for identifying a candidate drug as a member of a class of drugs having a characteristic effect on gene expression in a yeast cell comprising contacting a yeast cell with a candidate drug and monitoring expression in the yeast cell of at least 1 NORF gene whose expression is affected by the class of drugs. The NORF genes may be used to study, monitor and affect phases of the cell cycle, the differentially expressed genes may be used as markers of phases of the cell cycle. The methods may be used to identify candidate drugs which affect the cell cycle and for identification of antifungal drugs. AAF3268 to AAF4064 represent SAGE tags used in the exemplification of the present invention. AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE method, in the exemplification of the present invention

SQ Sequence 10 BP; 3 A; 3 C; 2 G; 2 T; 0 U; 0 Other;  
 Query Match 24.3%; Score 6.8; DB 1; Length 10;  
 Best Local Similarity 80.0%; Pred. No. 4.5e+02;  
 Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 OY 17 AGGAGTCCA 26  
 |||||  
 1 ATGCACTCCA 10  
 DB  
 RESULT 648  
 ABQ86347  
 ID ABQ86347 standard; cDNA; 11 BP.  
 XX  
 AC ABQ86347;  
 XX  
 DT 10-SEP-2002 (first entry)  
 XX  
 DE Human skin stress/ageing related EST SEQ ID NO 102.  
 XX  
 KM Human; skin ageing; skin stress; EST; expressed sequence tag; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200253773-A2.  
 XX  
 PD 11-JUL-2002.  
 XX  
 PF 20-DEC-2001; 2001MO-EP015178.  
 XX  
 PR 03-JAN-2001; 2001DE-01000121.  
 XX  
 PA (HENK ) HENKEL KGAA.  
 XX  
 PI Petersohn D, Conradt M, Hofmann K;  
 XX  
 DR WPI; 2002-528865/56.  
 XX  
 PT Identifying genes involved in skin stress and aging, useful e.g. in  
 PT screening for cosmetic or therapeutic agents, based on differential gene  
 PT expression.  
 XX  
 PS Claim 8; Page 41; 325pp; German.  
 XX  
 CC The invention relates to identifying (M1) genes in vitro that, in humans  
 CC or animals, are important for skin ageing and/or skin stress by serial  
 CC analysis of gene expression between mixtures of transcribed and  
 CC optionally translated, genetically encoded factors (A) obtained from  
 CC young and aged skin, to identify that genes that show strong differential  
 CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is  
 CC useful for: identifying markers of skin ageing and/or stress; determining  
 CC skin ageing and/or stress; and identifying or determining the effects of  
 CC pharmaceutical or cosmetic agents for control of skin ageing. The present  
 CC sequence is one of a group of human skin ageing/stress related expressed  
 CC sequence tags (ABQ86246-ABQ87680) of the invention  
 XX  
 SQ Sequence 11 BP; 2 A; 4 C; 1 G; 4 T; 0 U; 0 Other;  
 Query Match 24.3%; Score 6.8; DB 1; Length 11;  
 Best Local Similarity 80.0%; Pred. No. 5e+02;  
 Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 OY 8 TACGTGTACA 17  
 |||||  
 1 TCCCTGTACA 10  
 DB  
 RESULT 649  
 ABV68461  
 ID ABV68461 standard; cDNA; 11 BP.  
 XX  
 AC ABV68461;  
 XX

XX  
 DT 21-OCT-2002 (first entry)  
 XX  
 DE Human skin EST 6247.  
 XX  
 KM Human; skin; dermatological; vulnery; antipsoriatic; antiseborrheic;  
 KM immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;  
 KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200253774-A2.  
 XX  
 PD 11-JUL-2002.  
 XX  
 PF 20-DEC-2001; 2001MO-EP015179.  
 XX  
 PR 03-JAN-2001; 2001DE-01000127.  
 XX  
 PA (HENK ) HENKEL KGAA.  
 XX  
 PI Petersohn D, Conradt M, Hofmann K;  
 XX  
 DR WPI; 2002-530638/63.  
 XX  
 PT In vitro identification of skin-expressed genes, useful for determining  
 PT homeostasis and identifying cosmetic or pharmaceutical agents against  
 PT e.g. skin cancer.  
 XX  
 PS Disclosure; Page 198; 1345pp; German.  
 XX  
 CC The invention relates to in vitro identification (M1) of genes expressed  
 CC in the skin of humans or animals by subjecting a mixture of genetically  
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)  
 CC so as to identify skin-expressed genes and quantify their expression.  
 CC (M1) is useful for identifying genes involved in skin homeostasis; to  
 CC determine skin homeostasis and to test agent (A) that maintains or  
 CC promotes skin homeostasis or that can be used for treating skin  
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;  
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;  
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention  
 XX  
 SQ Sequence 11 BP; 2 A; 4 C; 1 G; 4 T; 0 U; 0 Other;  
 Query Match 24.3%; Score 6.8; DB 1; Length 11;  
 Best Local Similarity 80.0%; Pred. No. 5e+02;  
 Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 OY 8 TACGTGTACA 17  
 |||||  
 1 TCCCTGTACA 10  
 DB  
 RESULT 650  
 ABH89284/c  
 ID ABH89284 standard; DNA; 12 BP.  
 XX  
 AC ABH89284;  
 XX  
 DT 22-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide primer SEQ ID NO 289277 for detecting SNP TSC00013867.  
 XX  
 KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX

PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIC-) EPIDENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 269277; 29pp + Sequence Listing; German.  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 12 BP; 4 A; 1 C; 4 G; 3 T; 0 U; 0 Other;  
 Query Match 24.3%; Score 6.8; DB 1; Length 12;  
 Best Local Similarity 80.0%; Pred. No. 5.5e+02;  
 Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 6 CCTACGTGTA 15  
 Db 12 CCTACACGTA 3  
 RESULT 651  
 ABH76707/C  
 ID ABH76707 standard; DNA; 12 BP.  
 XX  
 AC ABH76707;  
 XX  
 DT 22-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide primer SEQ ID NO 276700 for detecting SNP TSC0004266.  
 XX  
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIC-) EPIDENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 276700; 29pp + Sequence Listing; German.  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 XX  
 SQ Sequence 12 BP; 2 A; 1 C; 3 G; 6 T; 0 U; 0 Other;  
 Query Match 24.3%; Score 6.8; DB 1; Length 12;  
 Best Local Similarity 80.0%; Pred. No. 5.5e+02;  
 Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 8 TACGTGTACA 17  
 Db 10 TACACGTGTA 1  
 RESULT 652  
 ABH85829  
 ID ABH85829 standard; DNA; 12 BP.  
 XX  
 AC ABH85829;  
 XX  
 DT 22-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide primer SEQ ID NO 285822 for detecting SNP TSC0012462.  
 XX  
 KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 KW (EPIC-) EPIDENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 285822; 29pp + Sequence Listing; German.  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073

CC represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but CC was obtained in electronic format from WIPO at  
ftp.wipo.int/pub/published\_pct\_sequences

CC Sequence 12 BP; 6 A; 3 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 24.3%; Score 6.8; DB 1; Length 12;

Best Local Similarity 80.0%; Pred. No. 5.5e+02; Mismatches 2; Indels 0; Gaps 0;

DB 8 TACGCTGACA 17

3 TACAGCTACA 12

RESULT 653

AB10703 standard; DNA; 12 BP.

AB10703;

22-FEB-2002 (first entry)

Oligonucleotide primer SEQ ID NO 310676 for detecting SNP TSC0024049.

SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

central nervous system; gastrointestinal; respiratory; immune; metabolic.

Homo sapiens.

WO200177384-A2.

18-OCT-2001.

06-APR-2001; 2001WO-1B000713.

07-APR-2000; 2000DE-01019173.

(EPIG-) EPIGENOMICS AG.

Olek A, Piepenbrock C, Berlin K;

WPI; 2001-657177/75.

Set of oligonucleotides, useful for diagnosis and cell typing, is designed to detect single-nucleotide polymorphisms and cytosine methylation status.

Claim 1, SEQ ID NO 310676; 29pp + Sequence Listing; German.

This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a

range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The

oligomers are also used for detecting cell type differentiation. AB000010

AB000010-AB000010, AB000010-AB000010 and AB100010-AB100010

represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but

was obtained in electronic format from WIPO at  
ftp.wipo.int/pub/published\_pct\_sequences

Sequence 12 BP; 4 A; 4 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 24.3%; Score 6.8; DB 1; Length 12;

Best Local Similarity 80.0%; Pred. No. 5.5e+02; Mismatches 2; Indels 0; Gaps 0;

DB 6 CCTACGTGA 15

||||| |||

DB 2 CCTACGTGA 11

RESULT 654

AAV1115/c

AAV1115 standard; RNA; 13 BP.

AAV1115;

25-MAR-2003 (revised)

14-JUL-1998 (first entry)

Human ribozyme target sequence from HLA-DRB 19DRB #5.

Ribozyme; target; human lymphocyte antigen; HLA-DRB; MHC allele;

major histocompatibility complex; cleavage; suppression; transplant;

incompatibility; autoimmune disease; juvenile diabetes;

rheumatoid arthritis; ss.

Homo sapiens.

WO9704087-A1.

06-FEB-1997.

18-JUL-1996; 96WO-EP003173.

18-JUL-1995; 95EP-0011256.

(KRUP/) KRUPP G.

(MARG/) MARGET M.

(WEST/) WESTPHAL E.

(MUEL/) MUELLER-RUCHHOLTZ W.

Krupp G, Marget M, Westphal E, Mueller-Ruchholtz W;

WPI; 1997-132628/12.

Ribozyme that cleaves specific MHC allele(s) - used to inhibit graft

versus host reactions, to overcome blood incompatibility and to treat

auto-immune disease.

Claim 5; Fig 1; 76pp; German.

AAV10915-V11123 are target sequences for a novel ribozyme which cleaves

specific alleles from the major histocompatibility complex (MHC). This

ribozyme contains a catalytic region and a hybridization region which is

complementary to all mRNA transcribed from vertebrate genes of a specific

family of closely related MHC alleles or to mRNA from a single MHC

allele, and is able to cleave such mRNA. The mRNA has a target region

which in case is essentially conserved in all genes of the family but

differs from genes of all other MHC alleles to such a degree that no

cleavage of mRNA transcribed from these other alleles occurs. This allows

the selective reduction or inhibition of expression of all genes of a

family or of a single gene. This ribozyme can be used for permanent or

transient suppression of expression of MHC alleles, in vivo or in vitro.

Specific applications are to prevent guest vs. host or host vs. guest

reactions to prevent blood incompatibilities (partic. of the ABO, rheus

and Kell systems) and to treat autoimmune diseases such as juvenile

diabetes and rheumatoid arthritis. The use of this ribozyme avoids the

need for immunosuppressants in transplant patients. It provides very

specific reduction of particular HLA molecules that cause incompatibility

between donor and recipient. (Updated on 25-MAR-2003 to correct PA

field.) (Updated on 25-MAR-2003 to correct PI field.)

Sequence 13 BP; 4 A; 3 C; 5 G; 0 T; 1 U; 0 Other;

Query Match 24.3%; Score 6.8; DB 1; Length 13;

Best Local Similarity 80.0%; Pred. No. 5.9e+02; Mismatches 2; Indels 0; Gaps 0;

DB 16 CAGGAGTCC 25

||||| |||

DB 12 CCGGATTCC 3

RESULT 655

ABC09239

ID ABC09239 standard; DNA; 13 BP.

XX

AC ABC09239;

XX

DT 20-FEB-2002 (first entry)

XX

DE Oligonucleotide SEQ ID NO 9230 for detecting SNP TSC0002450.

XX

SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX

OS Homo sapiens.

XX

WO200177384-A2.

XX

PD 18-OCT-2001.

XX

PF 06-APR-2001; 2001WO-IB000713.

XX

PR 07-APR-2000; 2000DE-01019173.

XX

PS (EPIG-) EPIGENOMICS AG.

XX

PA Olek A, Piepenbrock C, Berlin K;

XX

PI WPI; 2001-657177/75.

XX

DR Set of oligonucleotides, useful for diagnosis and cell typing, is

XX

PT designed to detect single-nucleotide polymorphisms and cytosine

XX

methylation status.

XX

PS Claim 1; SEQ ID NO 9230; 29pp + Sequence Listing; German.

XX

CC This invention describes novel oligonucleotide primers or peptide nucleic

XX

acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

XX

and cytosine methylation status in chemically pretreated genomic DNA. The

XX

oligonucleotides are used for diagnosis and/or prognosis of cancer and a

XX

range of diseases including immune system, gastrointestinal, respiratory,

XX

central nervous system, cardiovascular and metabolic disorders. The

XX

oligomers are also used for detecting cell type differentiation. ABC00010

XX

-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073

XX

represent the oligomers described in the invention. NOTE: The sequence

XX

data for this patent did not form part of the printed specification, but

XX

was obtained in electronic format from WIPO at

XX

ftp.wipo.int/pub/published\_pct\_sequences

XX

Sequence 13 BP; 4 A; 4 C; 1 G; 3 T; 0 U; 1 Other;

XX

Query Match 24.3%; Score 6.8; DB 1; Length 13;

XX

Best Local Similarity 80.0%; Pred. No. 5.9e+02;

XX

Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

XX

OY 8 TACGTGTACA 17

XX

2 TACAGCTACA 11

XX

RESULT 656

ABC09238/C

ID ABC09238 standard; DNA; 13 BP.

XX

AC ABC09238;

XX

DT 20-FEB-2002 (first entry).

XX

DE Oligonucleotide SEQ ID NO 9229 for detecting SNP TSC0002450.

XX

KW SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX

OS Homo sapiens.

XX

WO200177384-A2.

XX

PD 18-OCT-2001.

XX

PF 06-APR-2001; 2001WO-IB000713.

XX

PR 07-APR-2000; 2000DE-01019173.

XX

PA (EPIG-) EPIGENOMICS AG.

XX

PI Olek A, Piepenbrock C, Berlin K;

XX

DR WPI; 2001-657177/75.

XX

PT Set of oligonucleotides, useful for diagnosis and cell typing, is

XX

PT designed to detect single-nucleotide polymorphisms and cytosine

XX

methylation status.

XX

PS Claim 1; SEQ ID NO 9229; 29pp + Sequence Listing; German.

XX

CC This invention describes novel oligonucleotide primers or peptide nucleic

XX

acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)

XX

and cytosine methylation status in chemically pretreated genomic DNA. The

XX

oligonucleotides are used for diagnosis and/or prognosis of cancer and a

XX

range of diseases including immune system, gastrointestinal, respiratory,

XX

central nervous system, cardiovascular and metabolic disorders. The

XX

oligomers are also used for detecting cell type differentiation. ABC00010

XX

-ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073

XX

represent the oligomers described in the invention. NOTE: The sequence

XX

data for this patent did not form part of the printed specification, but

XX

was obtained in electronic format from WIPO at

XX

ftp.wipo.int/pub/published\_pct\_sequences

XX

Sequence 13 BP; 3 A; 1 C; 4 G; 4 T; 0 U; 1 Other;

XX

Query Match 24.3%; Score 6.8; DB 1; Length 13;

XX

Best Local Similarity 80.0%; Pred. No. 5.9e+02;

XX

Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

XX

OY 8 TACGTGTACA 17

XX

12 TACAGCTACA 3

XX

RESULT 657

AAA26121/C

ID AAA26121 standard; DNA; 14 BP.

XX

AC AAA26121;

XX

DT 19-JUL-2000 (first entry)

XX

DE Oestrogen receptor hairpin ribozyme target sequence SEQ ID NO:2619.

XX

XX

KW Oestrogen receptor; c-rac; k-ras; bcl-2; ribozyme; cleavage;

XX

KM hammerhead ribozyme; hairpin ribozyme; antisense oligonucleotide;

XX

KM gene expression modification; cancer; phosphorochlorate; endonuclease;

XX

OS anticancer; breast cancer; endometrium cancer; ss.

XX

OS Homo sapiens.

XX

WO9954455-A2.

XX

PD 28-OCT-1999.

XX

PF 19-APR-1999; 99WO-US008547.

XX



PR 20-APR-1998; 98US-0082404P.  
 PR 23-JUN-1998; 98US-00103636.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 XX  
 PI Thompson JD, Beigelman L, Mcswiggen JA, Karpelisky A, Bellon L,  
 PI Reynolds M, Zwick M, Jarvis T, Woolf T, Haeblerl P;  
 PI Matulic-Adamic U;  
 DR WPI; 2000-013248/01.  
 XX  
 PT New nucleic acids that interact, and optionally cleave, target sequences,  
 PT used to treat cancer.  
 XX  
 PS Claim 79; Page 98; 148pp; English.  
 XX  
 CC The present invention describes nucleic acids (A) that interact stably  
 CC with a target sequence and contain at least one phosphorodi(thio)thioate  
 CC link, having endonuclease activity. (A), and more generally any catalytic  
 CC nucleic acid (A') that modulates expression of the oestrogen receptor  
 CC gene, are used to treat cancer (particularly of breast or endometrium),  
 CC in vivo or by transforming cells ex vivo and implanting treated cells, or  
 CC for other conditions associated with levels of oestrogen receptor.  
 CC Because of the high selectivity for targeted RNA, (A) can also be used to  
 CC correlate inhibition of gene expression with alterations in phenotype,  
 CC particularly for identification of therapeutic targets, and as research  
 CC reagents (for RNA, in the same way that restriction endonucleases are  
 CC used with DNA). The combination of modifications in (A) improves  
 CC resistance to nucleases, binding affinity and/or activity. AAA2503 to  
 CC AAA24747 represent oestrogen receptor hammerhead ribozyme sequences, and  
 CC AAA24748 to AAA25992 represent their corresponding target sequences.  
 CC AAA25993 to AAA26105 represent oestrogen receptor hairpin ribozyme  
 CC sequences, and AAA26107 to AAA26218 represent their corresponding target  
 CC sequences. AAA26219 to AAA26271 represent other ribozyme sequences and  
 CC antisense oligonucleotides used in the exemplification of the present  
 CC invention  
 CC  
 SQ Sequence 14 BP; 2 A; 6 C; 4 G; 2 T; 0 U; 0 Other;  
 XX  
 Query Match 24.3%; Score 6.8; DB 1; Length 14;  
 Best Local Similarity 80.0%; Pred. No. 6.2e+02;  
 Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 13 GTACAGGAG 22  
 Db 14 GTACAGGAG 5  
 RESULT 658  
 AA083430  
 ID AA083430 standard; DNA; 14 BP.  
 XX  
 AC AA083430;  
 XX  
 DT 25-MAR-2003 (revised)  
 DT 20-SEP-1995 (first entry)  
 XX  
 DE c-fos antisense oligonucleotide.  
 XX  
 KW c-jun; c-fos; jun-B; neuronal injury; cell death; neoplasm; antisense;  
 KW phosphorothioate; ss.  
 XX  
 OS Synthetic.  
 XX  
 PN WO9502051-A2.  
 XX  
 PD 19-JAN-1995.  
 XX  
 PF 06-JUL-1994; 94WO-EP002218.  
 XX  
 PR 10-JUL-1993; 93EP-00111059.  
 XX  
 PA (BIOG-) BIOGNOSTIK GBS BIOMOLEKULARE DIAGNOSTIK.

XX  
 PI Schlingensiepen G, Schlingensiepen R, Schlingensiepen K, Brysch W;  
 PI WPI; 1995-066896/09.  
 DR  
 XX  
 PT Use of antisense c-jun, c-fos or jun-B nucleic acids - for preventing and  
 PT treating neuronal injury, degeneration, cell death and/or neoplasms.  
 XX  
 PS Claim 2; Page 65; 86pp; English.  
 XX  
 CC Antisense nucleic acid hybridising with an area of the mRNA and/or DNA  
 CC comprising the genes c-jun, jun-B or c-fos, expression of which plays a  
 CC causal role in neuronal injury, degeneration, cell death and/or  
 CC neoplasms, can be used to prevent and treat such conditions. c-jun  
 CC antisense sequences are described in AA083267-321 and AA083440-43; jun-B  
 CC antisense sequences are described in AA083322-63 and AA083444-45; and c-  
 CC fos antisense sequences are described in AA083364-439 and AA083446- 51.  
 CC Preferably the antisense sequences are phosphorothioate oligonucleotides  
 CC since these are not destroyed as fast by endogenous factors as naturally  
 CC occurring molecules. (Updated on 25-MAR-2003 to correct PN field.)  
 CC  
 SQ Sequence 14 BP; 4 A; 3 C; 4 G; 3 T; 0 U; 0 Other;  
 XX  
 Query Match 24.3%; Score 6.8; DB 1; Length 14;  
 Best Local Similarity 80.0%; Pred. No. 6.2e+02;  
 Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 11 GTGTACAGG 20  
 Db 4 GTATACAGAG 13  
 RESULT 659  
 ABL39464/C  
 ID ABL39464 standard; DNA; 15 BP.  
 XX  
 AC ABL39464;  
 XX  
 DT 22-APR-2002 (first entry)  
 XX  
 DE Human ETRF allele-specific oligonucleotide primer 24.  
 XX  
 KW Human; electron-transfer flavoprotein beta polypeptide; ETRF;  
 KW electron acceptor; mitochondrial matrix; glutaric acidaemia type II;  
 KW novel polymorphic site; novel polymorphism; ETRF genotype; ss; GATC;  
 KW ETRF haplotype; transgenic animal; primer; probe; chromosome 19q13;  
 KW primer-extension oligonucleotide; single nucleotide polymorphism; SNP.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200202580-A2.  
 XX  
 PD 10-JAN-2002.  
 XX  
 PF 05-JUL-2001; 2001WO-US021306.  
 XX  
 PR 05-JUL-2000; 2000US-0215984P.  
 XX  
 PA (GENA-) GENNAISSANCE PHARM INC.  
 XX  
 PI Bentivegna SC, Bieglecki KM, Kazemi A, Koshy B;  
 XX  
 DR WPI; 2002-154722/20.  
 XX  
 PT Novel isolated human electron-transfer-flavoprotein, beta polynucleotide,  
 PT useful for therapeutic purposes, for studying the expression and function  
 PT of the polynucleotide, and for expressing the flavoprotein.  
 XX  
 PS Claim 17; Page 14; 143pp; English.  
 XX  
 CC The invention comprises DNA, cDNA and protein sequences of the human  
 CC electron-transfer flavoprotein, beta polypeptide (ETRF) gene (located on  
 CC chromosome 19q13.3-13.4). The invention specifically relates to the

CC identification of 27 novel polymorphic sites within the ETPB gene.  
 CC Electron-transfer flavoprotein (ETP) is an obligatory electron acceptor  
 CC for nine primary flavoprotein dehydrogenases and is located in the  
 CC mitochondrial matrix. ETP is composed of an alpha (ETPA) and a beta  
 CC (ETPB) subunit. Electrons accepted by ETP are transferred to the  
 CC mitochondrial respiratory chain by ETP dehydrogenases (ETPDHs).  
 CC Deficiency of ETP or ETPDH leads to glutaric acidemia type II (GAI1).  
 CC Therefore ETPB is a pharmaceutically-important gene in the treatment of  
 CC GAI1. The novel ETPB polymorphisms identified in the invention are useful  
 CC for genotyping and haplotyping the ETPB gene of an individual. The ETPB  
 CC protein and nucleic acids of the invention are useful for studying the  
 CC expression and function of ETPB in vivo. The ETPB protein and nucleic  
 CC acids are also useful for testing the efficacy of therapeutic agents and  
 CC compounds for glutaric acidemia type II. The nucleic acids of the  
 CC invention are useful in the production of a transgenic animal expressing  
 CC the ETPB gene. Nucleic acids ABL39414-ABL39440 represent claimed ETPB  
 CC allele-specific probes. Nucleic acids ABL39441-ABL39494 represent claimed  
 CC ETPB allele-specific PCR primers. Nucleic acids ABL39495-ABL39548  
 CC represent claimed ETPB primer-extension oligonucleotides  
 CC  
 SQ Sequence 15 BP; 3 A; 5 C; 5 G; 1 T; 0 U; 1 Other;  
 Query Match 24.3%; Score 6.8; DB 1; Length 15;  
 Best Local Similarity 80.0%; Pred. No. 6.4e+02;  
 Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 19 GGAGTCCAGG 28  
 DB 10 GCACCTCTGG 1  
 RESULT 660  
 ID ABA03963 standard; DNA; 15 BP.  
 XX ABA03963;  
 AC  
 XX 19-FEB-2002 (first entry)  
 DT  
 XX  
 DE Human STK11 gene polymorphism detection ASO primer SEQ ID NO:30.  
 XX  
 KM Human; STK11; serine/threonine kinase 11; polymorphism; SNP;  
 KM single nucleotide polymorphism; Peutz-Jeghers Syndrome; genotyping;  
 KM haplotype; genetic variant; haplotyping; allele-specific oligonucleotide;  
 KM ASO primer; ss.  
 XX  
 OS Homo sapiens.  
 OS  
 XX WO200187906-A2.  
 XX  
 XX 22-NOV-2001.  
 PD  
 XX 17-MAY-2001; 2001WO-US016045.  
 PF  
 XX 17-MAY-2000; 2000US-0204697B.  
 PR  
 XX (GENA-) GENAISANCE PHARM INC.  
 XX  
 PA Bieganski KM, Chew A, Choi JY, Nandabalan K, Sausker EA;  
 XX  
 PI WPI; 2002-055679/07.  
 DR  
 XX  
 PT Novel genetic variants of serine/threonine kinase 11 (Peutz-Jeghers  
 PT syndrome) useful in studying expression and function of the protein, and  
 PT for screening candidate drugs to treat diseases e.g. Peutz-Jeghers  
 PT syndrome.  
 XX  
 XX Claim 16; Page 13; 86pp; English.  
 PS  
 XX The present invention describes a method for haplotyping the  
 CC serine/threonine kinase 11 (Peutz-Jeghers syndrome) (STK11) gene of an  
 CC individual. STK11 gene sequences can be used in gene therapy. The STK11  
 CC gene is useful for screening drug targeting comprising contacting STK11

CC with a candidate agent and assaying for binding activity. STK11 is useful  
 CC for improving the efficiency and reliability of several steps in the  
 CC discovery and development of drugs for treating diseases associated with  
 CC STK11 activity, e.g. Peutz-Jeghers syndrome. The method is useful for  
 CC haplotyping the STK11 gene in an individual, which can also be used in  
 CC pharmaceutical research to validate STK11 as a candidate target for, and  
 CC in design of clinical trials of candidate drugs for, treating a specific  
 CC condition. Allele-specific oligonucleotides (ASOs) are useful as probes  
 CC and primers for assaying a polymorphism in the target region. The present  
 CC sequence represents an ASO primer used for detecting STK11 gene  
 CC polymorphisms, which is used in the exemplification of the present  
 CC invention  
 CC  
 SQ Sequence 15 BP; 2 A; 6 C; 6 G; 0 T; 0 U; 1 Other;  
 Query Match 24.3%; Score 6.8; DB 1; Length 15;  
 Best Local Similarity 80.0%; Pred. No. 6.4e+02;  
 Matches 8; Conservative 0; Mismatches 2; Indels 0; Gaps 0;  
 QY 16 CAGGAGTCC 25  
 DB 1 CACGAGAGCC 10  
 RESULT 661  
 ID AA51767/c  
 XX AA51767 standard; DNA; 16 BP.  
 XX  
 AC AA51767;  
 XX  
 DT 31-OCT-2000 (first entry)  
 DT  
 XX  
 DE CYP3A5 gene 5' flanking region forward sequencing primer 3A5P01.  
 XX  
 XX CYP3A5; Cytochrome P450; transcription regulatory region; polymorphism;  
 KM Activator protein-3 motif; AP-3; basic transcription element;  
 KM drug metabolism; phenotype; sequencing primer; ss.  
 XX  
 OS Homo sapiens.  
 OS  
 XX WO200039332-A1.  
 XX  
 XX 06-JUL-2000.  
 PD  
 XX 22-DEC-1999; 99WO-GB004380.  
 PF  
 XX 23-DEC-1998; 98GB-00028619.  
 PR  
 XX (JANC) JANSSEN PHARM NV.  
 XX  
 XX Paulussen ADC, Armstrong M;  
 XX  
 XX WPI; 2000-452418/39.  
 DR  
 XX  
 PT Identifying subjects with a high drug metabolizing phenotype associated  
 PT with cytochrome CYP3A5 expression for establishing whether a drug will be  
 PT metabolized by the subject.  
 XX  
 PS Disclosure; Page 39; 68pp; English.  
 XX  
 XX Cytochrome P450 subfamily CYP3A5 transcription regulatory regions can be  
 CC screened for the presence/absence of a polymorphic variant, preferably at  
 CC positions -475 or -147 of the DNA of the 5' flanking region adjacent to  
 CC the CYP3A5 coding sequence. The variants are present in an activator  
 CC protein-3 (AP-3) motif and/or a basic transcription element (BRE). The  
 CC polymorphisms cause increased CYP3A5 gene expression and this has been  
 CC linked to drug metabolic activity. Screening for the presence of variants  
 CC can be used to identify subjects with a high or low drug metabolizing  
 CC phenotype associated with cytochrome CYP3A5 expression. Primers are used  
 CC which in addition to hybridizing to the site of interest, are capable of  
 CC introducing a restriction site which is absent in either the wild type  
 CC sequence or polymorphic variants. Restriction enzyme cleavage analysis



QY 5 CCGTACGTGTACAGGAG 22  
DB 25 CACTCGCTGCACACGTAG 8

RESULT 664

AAV11022/c

AAV11022

25-MAR-2003 (revised)

14-JUL-1998 (first entry)

Human ribozyme target sequence from HLA-DPB 02DPB #3.

Ribozyme; target; human lymphocyte antigen; HLA-DPB; MHC allele;

major histocompatibility complex; cleavage; suppression; transplant;

incompatibility; autoimmune disease; juvenile diabetes;

rheumatoid arthritis; ss.

Homo sapiens.

WO9704087-A1.

06-FEB-1997.

18-JUL-1996; 96WO-EP003173.

18-JUL-1995; 95EP-00111256.

(KRUPP) KRUPP G.

(MARG) MARG M.

(WEST) WESTPHAL E.

(MUELL) MUELLER-RUCHHOLTZ W.

Krupp G, Marger M, Westphal E, Mueller-Ruchholtz W,

WPI; 1997-132628/12.

Ribozyme that cleaves specific MHC allele(s) - used to inhibit graft

versus host reactions, to overcome blood incompatibility and to treat

autoimmune disease.

Claim 5; Fig 1; 76pp; German.

AAV10915-V11123 are target sequences for a novel ribozyme which cleaves

specific alleles from the major histocompatibility complex (MHC). This

ribozyme contains a catalytic region and a hybridisation region which is

complementary to all mRNA transcribed from vertebrate genes of a specific

family of closely related MHC alleles or to mRNA from a single MHC

allele, and is able to cleave such mRNA. The mRNA has a target region

which in case is essentially conserved in all genes of the family but

differs from genes of all other MHC alleles to such a degree that no

cleavage of mRNA transcribed from these other alleles occurs. This allows

the selective reduction or inhibition of expression of all genes of a

family or of a single gene. This ribozyme can be used for permanent or a

transient suppression of expression of MHC alleles, in vivo or in vitro.

Specific applications are to prevent guest vs. host or host vs. guest

reactions, to prevent blood incompatibilities (partic. of the ABO, rhesus

and Kell systems) and to treat autoimmune diseases such as juvenile

diabetes and rheumatoid arthritis. The use of this ribozyme avoids the

need for immunosuppressants in transplant patients. It provides very

specific reduction of particular HLA molecules that cause incompatibility

between donor and recipient. (Updated on 25-MAR-2003 to correct PA

field.) (Updated on 25-MAR-2003 to correct PI field.)

Sequence 13 BP; 3 A; 3 C; 3 G; 0 T; 4 U; 0 Other;

Query Match 23.6%; Score 6.6; DB 1; Length 13;

Best Local Similarity 69.2%; Pred. No. 6.3e+02;

Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

QY 9 ACGTGTACAGGGA 21  
DB 13 ACTGTGTACAGTA 1

RESULT 665

AAF47953

AAF47953 standard; DNA; 15 BP.

AAF47953;

30-MAR-2001 (first entry)

IGFBP3 oligonucleotide #1373.

Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;

cytostatic; dermatological; cardiac; vitreous; ophthalmological; keloid;

skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pterygia;

IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;

growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba;

keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;

hyperneovascular condition; hyperplasia; kidney disease;

neovascular condition of the retina; ss.

Homo sapiens.

WO200078341-A1.

28-DEC-2000.

21-JUN-2000; 2000WO-AU000693.

21-JUN-1999; 99US-0140345P.

(MURDO) MURDOCH CHILDRENS RES INST.

Wright CJ, Werther GA, Edmondson SR,

WPI; 2001-041421/05.

Ameliorating the effects of a disorder, e.g. psoriasis, by administering

UV (ultra-violet) treatment (optional) and an antisense nucleic acid that

inhibits or reduces growth factor mediated cell proliferation and/or

inflammation.

Example 7; Page 53; 201pp; English.

The present invention relates to a method for ameliorating the effects of

skin disorders. The method comprises contacting the skin with an

antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1

receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of

inhibiting or reducing growth factor mediated cell proliferation,

inflammation and/or other disorders. The present sequence is an

oligonucleotide which can be used to design the antisense

oligonucleotides of the present invention (see AAF45151 and AAF45153-

RS151). The method is useful for ameliorating the effects of psoriasis,

ichthyosis, pterygia, ruba, pilaris, seborrhoea, keloids, keratosis,

neoplasias, scleroderma, warts, benign growths, cancers of the skin, a

hyperneovascular condition such as a neovascular condition of the retina,

brain or skin, growth factor-mediated malignancies, other sclerotic

disease, kidney disease, hyperproliferation of the inside of blood

vessels or any other hyperplasia

Sequence 15 BP; 3 A; 9 C; 1 G; 2 T; 0 U; 0 Other;

Query Match 23.6%; Score 6.6; DB 1; Length 15;

Best Local Similarity 69.2%; Pred. No. 5.9e+02;

Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

```

RESULT 666
AAQ9935/c
ID AAQ9935 standard; DNA; 16 BP.
XX
XX AAQ9935;
XX
XX 07-MAY-1996 (first entry)
XX
XX Human MTS1 RT-PCR primer; X2B.
XX
XX Multiple tumour suppressor; El-alpha; diagnosis; cancer; leukaemia;
XX astrocytoma; glioblastoma; Hodgkin's lymphoma; melanoma; glioma;
XX gene therapy; chronic; ss.
XX
XX Homo sapiens.
XX
XX WO9525429-A1.
XX
XX 28-SEP-1995.
XX
XX 17-MAR-1995; 95WO-US003316.
XX
XX 18-MAR-1994; 94US-00214581.
XX 18-MAR-1994; 94US-00214582.
XX 18-MAR-1994; 94US-00215086.
XX 14-APR-1994; 94US-00227369.
XX 01-JUN-1994; 94US-00251938.
XX
XX (MYRI-) MYRIAD GENETICS INC.
XX
XX Kamb A;
XX
XX WPI; 1995-344401/44.
XX
XX Wild-type multiple tumour suppressor (MTS) gene and mutant sequences -
XX useful in diagnosis, prognosis and therapy of human cancer, e.g. melanoma
XX or leukaemia.
XX
XX Example 12; Page 68; 156pp; English.
XX
XX The cDNA sequences encoding several multiple tumour suppressor (MTS)
XX polypeptides have been isolated and sequenced, using various sequencing
XX and amplification primers. The primer represented in this sequence was
XX used to distinguish between two different promoters of MTS1, one alpha-
XX specific and one beta-specific. MTS polypeptide-encoding cDNAs and
XX mutants of these are useful for the diagnosis or prognosis of human
XX cancer. Germ-line mutations of MTS cDNAs can be used for diagnosing
XX predisposition to melanoma, leukaemia, astrocytoma, glioblastoma,
XX lymphoma, glioma, Hodgkin's lymphoma, CLL and cancers of the pancreas,
XX thyroid, ovary, uterus, testis, kidney, stomach and rectum. The wild-type
XX gene is useful for gene therapy and MTS polypeptides may also be used for
XX protein replacement therapy. Also the polypeptides or cells contg. an
XX altered MTS gene are useful for screening for potential cancer
XX therapeutics
XX
XX Sequence 16 BP; 3 A; 6 C; 5 G; 2 T; 0 U; 0 Other;
SQ
Query Match 23.6%; Score 6.6; DB 1; Length 16;
Best Local Similarity 69.2%; Pred. No. 7e+02;
Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
OY 7 CTACGTGTACAG 19
Db 13 CTTCCTGGACAG 1

```

```

DT 08-MAY-1996 (first entry)
XX
XX Multiple tumour suppressor 1 gene PCR primer.
XX
XX Multiple tumour suppressor; MTS1; cancer; diagnosis; assay;
XX predisposition; melanoma; leukaemia; lymphoma; prognosis; pancreas;
XX breast; thyroid; PCR primer; ss.
XX
XX Synthetic.
XX
XX WO9525813-A1.
XX
XX 28-SEP-1995.
XX
XX 17-MAR-1995; 95WO-US003537.
XX
XX 18-MAR-1994; 94US-00214582.
XX 18-MAR-1994; 94US-00215086.
XX 18-MAR-1994; 94US-00215087.
XX 14-APR-1994; 94US-00227369.
XX 01-JUN-1994; 94US-00251938.
XX
XX (UTAH) UNIV UTAH RES FOUND.
XX
XX (MYRI-) MYRIAD GENETICS INC.
XX
XX Skolnick MH, Cannon-Albright LA, Kamb A;
XX
XX WPI; 1995-344626/44.
XX
XX Detecting polymorphism associated with cancer pre-disposition - also DNA,
XX vectors and host cells e.g. for gene or protein replacement therapy and
XX drug screening.
XX
XX Example 12; Page 68; 148pp; English.
XX
XX An individual can be diagnosed as having a predisposition to cancer by
XX detecting an alteration in the wild type multiple tumour suppressor (MTS)
XX gene, using gene probes which hybridise to the MTS1 gene exon 1 or exon
XX beta (amplified using the PCR primers AAT00724-27). The above assay can
XX also be used in the diagnosis and prognosis of melanoma, lymphoma,
XX leukaemia and pancreas, breast and thyroid cancers, etc
XX
XX Sequence 16 BP; 3 A; 6 C; 5 G; 2 T; 0 U; 0 Other;
SQ
Query Match 23.6%; Score 6.6; DB 1; Length 16;
Best Local Similarity 69.2%; Pred. No. 7e+02;
Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
OY 7 CTACGTGTACAG 19
Db 13 CTTCCTGGACAG 1

```

```

RESULT 667
AAT00727/c
ID AAT00727 standard; DNA; 16 BP.
XX
XX AAT00727;
XX

```

```

RESULT 668
AAT69788/c
ID AAT69788 standard; DNA; 16 BP.
XX
XX AAT69788;
XX
XX 25-MAR-2003 (revised)
XX 10-SEP-1997 (first entry)
XX
XX P16 promoter primer X2B.
XX
XX Primer; polymerase chain reaction; PCR; amplification; P16; promoter; ss.
XX
XX Synthetic.
XX
XX US5624819-A.
XX
XX 29-APR-1997.
XX
XX 07-JUN-1995; 95US-00474177.
XX

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XX 18-MAR-1994; 94US-00214582.
PR 18-MAR-1994; 94US-00215086.
PR 18-MAR-1994; 94US-00215087.
PR 14-APR-1994; 94US-00227369.
PR 01-JUN-1994; 94US-00251938.
PR 17-MAR-1995; 95WO-US003537.
XX (MYRI-) MYRIAD GENETICS INC.
PA (MYRI-) UNIV UTAH RES FOUND.
XX
XX Cannon-Albright LA, Kamb A, Skolnick MH;
DR WPI; 1997-258217/23.
XX
XX Human mutant multiple tumour suppressor gene sequences - for production
PT of recombinant mutant polypeptide(s).
XX
XX Example 12; Col 81-82; 72pp; English.
XX
XX The present sequence is primer for the PCR amplification of the P16
CC promoter. (Updated on 25-MAR-2003 to correct PF field.)
XX
XX Sequence 16 BP; 3 A; 6 C; 5 G; 2 T; 0 U; 0 Other;
SQ
Query Match 23.6%; Score 6.6; DB 1; Length 16;
Best Local Similarity 69.2%; Pred. No. 7e+02;
Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Oy 7 CTACGTGTACAG 19
Db 13 CTTCTGTGACAG 1
RESULT 669
AAV53838/C
ID AAV53838 standard; DNA; 16 BP.
XX
XX AAV53838;
AC
XX
XX 04-DEC-1998 (first entry)
DT
XX
XX Nucleotide sequence of PCR primer 9.
DE
XX
XX Multiple tumour suppressor; MTS; human; cancer; hybridisation;
KM somatic mutation; gene therapy; PCR; primer; amplification; ss.
XX
XX Synthetic.
OS
XX
XX US5801236-A.
PN
XX
XX 01-SEP-1998.
PD
XX
XX 07-JUN-1995; 95US-00480610.
PF
XX
XX 18-MAR-1994; 94US-00214582.
PR 18-MAR-1994; 94US-00215086.
PR 14-APR-1994; 94US-00227369.
PR 01-JUN-1994; 94US-00251938.
PR 17-MAR-1995; 95WO-US003537.
XX
XX (MYRI-) MYRIAD GENETICS INC.
PA
XX
XX Kamb A;
PI
XX
XX WPI; 1998-494842/42.
DR
XX
XX Nucleic acids based on multiple tumour suppressor, MTS, sequences -
PT useful as hybridisation probes, primers and recombinant production of MTS
XX in the diagnosis and treatment of cancers related to MTS mutation(s).
XX
XX Example 12; Col 51; 73pp; English.
PS

```

```

XX This is the nucleotide sequence of a PCR primer used for amplification in
CC the method of the invention involving the use of the multiple tumour
CC suppressor (MTS) gene, to diagnose and treat cancer. The MTS gene is
CC useful in the diagnosis and prognosis of human cancer, e.g. by standard
CC nucleic hybridisation techniques, of patient samples. The mutated
CC sequences are those that are present in somatic mutations of the gene in
CC cancers. The vectors can be used for gene therapy strategies to replace
CC function of mutated protein in patients. These can also be used to
CC construct protein mimetics, also for therapeutic strategies. In addition
CC the expression constructs can also be used for recombinant production of
CC MTS. Recombinant MTS can be used to screen for drugs to be used for
CC cancer therapy, and the protein itself may also be used to restore MTS
CC function in a cell.
XX
XX Sequence 16 BP; 3 A; 6 C; 5 G; 2 T; 0 U; 0 Other;
SQ
Query Match 23.6%; Score 6.6; DB 1; Length 16;
Best Local Similarity 69.2%; Pred. No. 7e+02;
Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
Oy 7 CTACGTGTACAG 19
Db 13 CTTCTGTGACAG 1
RESULT 670
AAV11257/C
ID AAV11257 standard; DNA; 16 BP.
XX
XX AAV11257;
AC
XX
XX 15-JUN-1998 (first entry)
DT
XX
XX Human MTS1 and MTS1E1-beta PCR primer X2B.
DE
XX
XX MTS1; MTS2; multiple tumour suppressor; diagnosis; cancer;
KM germ-line mutation; familial melanoma locus; MLM; predisposition; ss.
XX
XX Synthetic.
OS
XX
XX Homo sapiens.
PN
XX
XX US5739027-A.
PD
XX
XX 14-APR-1998.
PF
XX
XX 07-JUN-1995; 95US-00487033.
PR 18-MAR-1994; 94US-00214582.
PR 18-MAR-1994; 94US-00215086.
PR 14-APR-1994; 94US-00227369.
PR 01-JUN-1994; 94US-00251938.
PR 17-MAR-1995; 95WO-US003537.
XX
XX (MYRI-) MYRIAD GENETICS INC.
PA
XX
XX Kamb A;
PI
XX
XX WPI; 1998-250421/22.
DR
XX
XX DNA specific for Multiple Tumour Suppressor 1E1-beta gene - are useful
PT for the diagnosis of cancers related to MTS1E1-beta mutation(s) and their
XX treatment.
XX
XX Example 12; Col 81-82; 72pp; English.
PS
XX
XX Primers AAV11256 and AAV11257 are used in the isolation of the human
CC multiple tumour suppression proteins, MTS1 and MTS1E1-beta. The MTS gene
CC locus is also referred to as the familial melanoma (MLM) gene locus,
CC located on human chromosome 9p21. Germ line mutations in MTS genes can be
CC used in the diagnosis of predisposition to cancers, e.g. melanoma,
CC leukaemia, astrocytoma, glioblastoma, lymphoma, glioma, Hodgkin's

```

CC lymphoma, CLL, and cancers of the pancreas, breast, thyroid, ovary,  
 CC uterus, testis, kidney, stomach and rectum  
 XX  
 SQ Sequence 16 BP; 3 A; 6 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 23.6%; Score 6.6; DB 1; Length 16;  
 Best Local Similarity 69.2%; Pred. No. 7e+02;  
 Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
 QY 7 CTACGCTGACAG 19  
 DB 13 CTTCCTGGACAG 1

RESULT 671  
 AAV70602/c  
 ID AAV70602 standard; DNA; 16 BP.  
 XX  
 AC AAV70602;  
 XX  
 DT 20-MAR-2003 (revised)  
 DT 03-FEB-1999 (first entry)  
 XX  
 DE PCR primer X2B for multiple tumour suppressor 2 gene.  
 XX  
 KW Human; multiple tumour suppressor 2 gene; MTS2; cancer; PCR primer; ss.  
 XX  
 OS Synthetic.  
 OS Homo sapiens.  
 XX  
 PN US5843756-A.  
 XX  
 PD 01-DEC-1998.  
 XX  
 PF 28-JUL-1995; 95US-00508735.  
 XX  
 PR 17-MAR-1995; 95WO-US003316.  
 PR 07-JUN-1995; 95US-00487033.  
 XX  
 PA (MYRI-) MYRIAD GENETICS INC.  
 XX  
 PI Jiang P, Kamb A, Stone S;  
 PI WPI; 1999-044585/04.  
 DR  
 XX  
 PT Mouse multiple tumour suppressor gene segment - useful for primer design.  
 PT  
 PS Example 14; Col 54; 80pp; English.  
 XX  
 CC PCR primers AAV70600-02 were used to amplify a human multiple tumour  
 CC suppressor 2 (MTS2) gene. The MTS2 gene nucleotide sequence can be used  
 CC to design primers to detect abnormalities i.e. polymorphisms which may  
 CC predispose towards malignancies such as melanoma, leukaemia, astrocytoma,  
 CC lymphoma, glioma, as well as tumours of e.g. the breast, thyroid,  
 CC pancreas, uterus and kidneys. (Updated on 20-MAR-2003 to correct PR  
 CC field.) (Updated on 20-MAR-2003 to correct PR field.)  
 CC  
 XX  
 SQ Sequence 16 BP; 3 A; 6 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 23.6%; Score 6.6; DB 1; Length 16;  
 Best Local Similarity 69.2%; Pred. No. 7e+02;  
 Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
 QY 7 CTACGCTGACAG 19  
 DB 13 CTTCCTGGACAG 1

RESULT 672  
 AAA95654/c  
 ID AAA95654 standard; DNA; 16 BP.  
 XX  
 AC AAA95654;

XX  
 DT 14-FEB-2001 (first entry)  
 XX  
 DE Human p16 promoter beta-specific primer X2B.  
 XX  
 KW Cytostatic; human; multiple tumour suppressor 2; MTS2; diagnostic;  
 KW cancer; gene therapy; protein replacement therapy; PCR primer; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN US6090578-A.  
 XX  
 PD 18-JUL-2000.  
 XX  
 PF 08-DEC-1997; 97US-00986515.  
 XX  
 PR 18-MAR-1994; 94US-00214582.  
 PR 18-MAR-1994; 94US-00215086.  
 PR 18-MAR-1994; 94US-00215087.  
 PR 14-APR-1994; 94US-00227369.  
 PR 01-JUN-1994; 94US-00251938.  
 PR 17-MAR-1995; 95WO-US003316.  
 PR 07-JUN-1995; 95US-00480810.  
 XX  
 PA (MYRI-) MYRIAD GENETICS INC.  
 XX  
 PI Kamb A;  
 PI WPI; 2000-514036/46.  
 DR  
 XX  
 PT Novel protein composition useful in protein replacement therapy for  
 PT diagnosing and treating cancer comprises a specific weight percent of  
 PT human multiple tumor suppressor 1 polypeptide.  
 XX  
 PS Example 12; Col 49; 72pp; English.  
 XX  
 CC The invention relates to the isolation of the gene encoding the human  
 CC multiple tumour suppressor 1 (MTS1) (AAA95633). The MTS1 protein has a  
 CC cytosolic activity and is used in protein replacement therapy. This  
 CC sequence is a PCR primer used in the amplification of the beta-specific  
 CC form of the p16 promoter. MTS1 is useful in diagnosing human cancers such  
 CC as (ocular) melanoma, leukaemia, astrocytoma, glioblastoma, lymphoma,  
 CC glioma, Hodgkin's lymphoma, multiple myeloma, sarcoma, myosarcoma,  
 CC cholangiocarcinoma, squamous cell carcinoma, CLL, and cancers of  
 CC pancreas, breast, stomach, brain, prostate, bladder, thyroid, ovary,  
 CC uterus, testis, kidney, colon and rectum. The MTS1 gene and protein is  
 CC useful in gene therapy, protein replacement therapy and protein mimetic  
 CC studies  
 XX  
 SQ Sequence 16 BP; 3 A; 6 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 23.6%; Score 6.6; DB 1; Length 16;  
 Best Local Similarity 69.2%; Pred. No. 7e+02;  
 Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;  
 QY 7 CTACGCTGACAG 19  
 DB 13 CTTCCTGGACAG 1

RESULT 673  
 AAZ48793/c  
 ID AAZ48793 standard; cDNA; 16 BP.  
 XX  
 AC AAZ48793;  
 XX  
 DT 21-MAR-2000 (first entry)  
 XX  
 DE PCR primer for human MTS1beta coding sequence.  
 XX  
 KW MTS; human; polymorphism detection; cancer predisposition; astrocytoma;  
 KW Multiple Tumour Suppressor gene; melanoma; leukaemia; glioblastoma;  
 KW lymphoma; glioma; Hodgkin's lymphoma; chronic lymphocytic leukaemia;

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KM therapy; MTS1beta; PCR primer; ss.
XX
OS Homo sapiens.
XX
PN US5989815-A.
XX
PD 23-NOV-1999.
XX
PF 29-APR-1997; 97US-00848251.
XX
PR 18-MAR-1994; 94US-00214582.
PR 18-MAR-1994; 94US-00215086.
PR 18-MAR-1994; 94US-00215087.
PR 14-APR-1994; 94US-00227369.
PR 01-JUN-1994; 94US-00251938.
PR 17-MAR-1995; 95WO-US003537.
PR 07-JUN-1995; 95US-00474083.
XX
PA (UTAH) UNIV UTAH RES FOUND.
PA (MYRI-) MYRIAD GENETICS INC.
XX
PI Skolnick MH, Cannon-Albright LA, Kamb A;
XX
DR WPI; 2000-070785/06.
XX
PT Diagnosing a polymorphism associated with a predisposition for cancer.
XX
PS Example 12; Col 48; 74pp; English.
XX
SQ This sequence is a PCR primer for DNA encoding human MTS1beta. The
CC invention relates to a method for diagnosing a polymorphism associated
CC with a predisposition to cancer by detecting a germ-line alteration of a
CC wild-type Multiple Tumor Suppressor (MTS) gene or its expression
CC products in a human sample. The method comprises detecting a germ-line
CC alteration of a wild-type MTS gene or its expression products in a human
CC sample, the alteration indicating a predisposition to at least one of the
CC cancers. The cancer is selected from melanoma, leukaemia, astrocytoma,
CC glioblastoma, lymphoma, glioma, Hodgkin's lymphoma, chronic lymphocytic
CC leukaemia (CLL), and cancers of the pancreas, breast, thyroid, ovary, the
CC uterus, testis, kidney, stomach and rectum. The method may be used as the
CC basis for developing very important diagnostic tests capable of
CC predicting the predisposition to cancer. The MTS gene is involved in the
CC progression of multiple tumour types and may provide means for a general
CC anti-cancer therapy by virtue of its ability to suppress tumour growth
CC
XX
SQ Sequence 16 BP; 3 A; 6 C; 5 G; 2 T; 0 U; 0 Other;

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Query Match 23.6%; Score 6.6; DB 1; Length 16;
Best Local Similarity 69.2%; Pred. No. 7e+02;
Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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OY 7 CTACGCTGACAGG 19
DB 13 CTTCCTGCACACG 1

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RESULT 674
AAZ3993/C
ID AAZ3993 standard; DNA; 16 BP.
XX
AC AAZ3993;
XX
DT 11-FEB-2000 (first entry)
XX
DE PCR primer for human multiple tumour suppressor 1 coding sequence.
XX
KW Multiple tumour suppressor; MTS2; human; diagnosis; Hodgkin's lymphoma;
KW cancer predisposition; melanoma; leukaemia; lymphoma; glioma; MTS1;
KW PCR primer; ss.
XX
OS Synthetic.
OS Homo sapiens.
XX

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EN US594095-A.
XX
XX 30-NOV-1999.
XX
PD 07-JUN-1995; 95US-00486047.
XX
PF 18-MAR-1994; 94US-00214582.
PR 18-MAR-1994; 94US-00215086.
PR 18-MAR-1994; 94US-00215087.
PR 14-APR-1994; 94US-00227369.
PR 01-JUN-1994; 94US-00251938.
PR 17-MAR-1995; 95WO-US003316.
XX
PA (MYRI-) MYRIAD GENETICS INC.
XX
PI Kamb A;
XX
DR WPI; 2000-038259/03.
XX
PT Multiple tumor suppressor cDNA, useful for diagnosing or determining a
PT predisposition to cancer.
XX
PS Example 12; Col 48; 72pp; English.
XX
SQ This sequence represents a PCR primer for the human multiple tumour
CC suppressor 1 (MTS1) coding sequence. The invention relates to the human
CC MTS2 DNA and protein sequences. The DNA sequences are useful for
CC diagnosing or determining a predisposition to cancers e.g. melanoma,
CC leukaemia, lymphoma, glioma, Hodgkin's lymphoma and cancers of the
CC pancreas, breast, thyroid, ovary, kidney, uterus and stomach
CC
XX
SQ Sequence 16 BP; 3 A; 6 C; 5 G; 2 T; 0 U; 0 Other;

```

```

Query Match 23.6%; Score 6.6; DB 1; Length 16;
Best Local Similarity 69.2%; Pred. No. 7e+02;
Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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OY 7 CTACGCTGACAGG 19
DB 13 CTTCCTGCACACG 1

```

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RESULT 675
AAA39372/C
ID AAA39372 standard; DNA; 16 BP.
XX
AC AAA39372;
XX
DT 12-SEP-2000 (first entry)
XX
DE Human P16 PCR primer SEQ ID NO:23.
XX

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KW Human; multiple tumour suppressor; MTS; somatic mutation; cancer;
KW diagnosis; germ line mutation; gene therapy; cyclostatic; melanoma;
KW leukaemia; astrocytoma; glioblastoma; lymphoma; glioma;
KW Hodgkin's lymphoma; PCR primer; ss.
XX

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OS Homo sapiens.
XX
XX US6060301-A.
XX
EN 09-MAY-2000.
XX
PD 14-JUL-1998; 98US-00115252.
XX
PF 18-MAR-1994; 94US-00214582.
PR 18-MAR-1994; 94US-00215086.
PR 18-MAR-1994; 94US-00215087.
PR 14-APR-1994; 94US-00227369.
PR 01-JUN-1994; 94US-00251938.
PR 17-MAR-1995; 95WO-US003316.
PR 07-JUN-1995; 95US-00480810.
PR 06-DEC-1997; 97US-00986147.

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AC AAC83090;
XX
XX 23-FEB-2001 (first entry)
DE Primer X2B used in the invention.
XX
XX MTS; Multiple Tumour Suppressor; cancer; antibody; ss.
XX
XX Homo sapiens.
XX
XX US6140473-A.
XX
XX 31-OCT-2000.
XX
XX 22-JUL-1998; 98US-00120128.
XX
XX 18-MAR-1994; 94US-00214582.
XX 18-MAR-1994; 94US-00215086.
XX 18-MAR-1994; 94US-00215087.
XX 14-APR-1994; 94US-00227369.
XX 01-JUN-1994; 94US-00251938.
XX 17-MAR-1995; 95WO-US003316.
XX 07-JUN-1995; 95US-00486047.
XX
XX (MYRIAD GENETICS INC.
XX
XX Kamb A;
XX
XX WPI; 2001-014867/02.
XX
XX New multiple tumor suppressor 2-specific antibodies useful for detecting
XX differences in the absence of the peptides or mutant gene products, or
XX for screening tissues.
XX
XX Example 12; Col 48; 71pp; English.
XX
XX The present invention relates to an antibody or its fragment that
XX specifically binds to a human multiple tumor suppressor (MTS). The
XX invention is useful for detecting differences in the absence of MTS
XX peptides, to screen a tissue or to detect mutant MTS gene products. The
XX antibodies will immunoprecipitate MTS proteins from solution as well as
XX react with MTS protein on Western or immunoblots of polyacrylamide gels
XX
XX
XX Sequence 16 BP; 3 A; 6 C; 5 G; 2 T; 0 U; 0 Other;
XX
XX
XX Query Match 23.6%; Score 6.6; DB 1; Length 16;
XX Best Local Similarity 69.2%; Pred No. 7e+02; 4; Indels 0; Gaps 0;
XX Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;
XX
XX QY 7 CTACGTGTACAGG 19
XX 13 CTTCCGTGACAGG 1
XX
XX Db
XX
XX RESULT 681
XX AAZ79758
XX ID AAZ79758 standard; DNA; 10 BP.
XX
XX AAZ79758;
XX
XX 10-APR-2000 (first entry)
XX
XX Human breast tumour downregulated gene SAGE tag. SEQ ID NO:49.
XX
XX SAGE tag; serial analysis of gene expression; diagnosis;
XX differential gene expression; characterisation; targeted expression;
XX tumour; cancer; immunotherapy; ss.
XX
XX Homo sapiens.
XX
XX WO966303-A2.
XX
XX 23-DEC-1999.

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XX
XX 17-JUN-1999; 99WO-US013820.
XX
XX 19-JUN-1998; 98US-00898833P.
XX 19-JUN-1998; 98US-00898844P.
XX 19-JUN-1998; 98US-00898855P.
XX 19-JUN-1998; 98US-00898787P.
XX 19-JUN-1998; 98US-00899912P.
XX 19-JUN-1998; 98US-00899922P.
XX 19-JUN-1998; 98US-00899932P.
XX 19-JUN-1998; 98US-00899942P.
XX 19-JUN-1998; 98US-00899972P.
XX 19-JUN-1998; 98US-00899992P.
XX 19-JUN-1998; 98US-00900002P.
XX 19-JUN-1998; 98US-00900035P.
XX 19-JUN-1998; 98US-00900036P.
XX 19-JUN-1998; 98US-00900039P.
XX 19-JUN-1998; 98US-00900040P.
XX 19-JUN-1998; 98US-00900041P.
XX 19-JUN-1998; 98US-00900042P.
XX 19-JUN-1998; 98US-00900043P.
XX 19-JUN-1998; 98US-00900044P.
XX 19-JUN-1998; 98US-00900045P.
XX 19-JUN-1998; 98US-00900047P.
XX 19-JUN-1998; 98US-00900048P.
XX 19-JUN-1998; 98US-00900072P.
XX 19-JUN-1998; 98US-00900076P.
XX 19-JUN-1998; 98US-00900077P.
XX 19-JUN-1998; 98US-00900078P.
XX 19-JUN-1998; 98US-00900079P.
XX 19-JUN-1998; 98US-0090080P.
XX 08-DEC-1998; 98US-0111715P.
XX
XX (GENZ) GENZYME CORP.
XX (ROBE/) ROBERTS B L.
XX (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
XX
XX WPI; 2000-106132/09.
XX
XX New polynucleotide useful in cancer immunotherapy.
XX
XX Claim 1; Page 54; 97pp; English.
XX
XX Sequences AAZ79710-279916 represent SAGE (serial analysis of gene
XX expression) tags used to identify mRNA transcripts which are
XX differentially expressed in a variety of normal or malignant cell types.
XX Some of the transcripts correspond to known genes or ESTs (expressed
XX sequence tags) which were previously unknown to be preferentially or
XX differentially expressed in that particular cell type, while other
XX transcripts correspond to novel genes. The invention also provides a
XX nucleotide comprising a promoter sequence derived from one of the
XX differentially expressed genes, which may optionally be operably linked
XX to a foreign nucleotide sequence, and gene delivery vehicles and host
XX cells comprising the polynucleotides of the invention. A nucleotide
XX comprising sequences AAZ79710-279916 may be used in diagnostic procedures
XX to characterise a cell of a specific tissue type and to determine whether
XX it is normal or malignant. They may be used to screen for agents that
XX modulate expression of differentially expressed genes compound. The
XX promoter/foreign gene construct of the invention may be used for
XX targeted expression of the foreign gene in a particular cell type. For
XX example, a promoter derived from a gene preferentially expressed in
XX dendritic cells (antigen-presenting cells; or APCs), may be operably
XX linked to a sequence encoding an antigen. Such a construct could be transduced into
XX cells and would be useful for inducing an immune response by educating
XX immune effector cells in vivo, or in cancer immunotherapy
XX
XX
XX Sequence 10 BP; 3 A; 3 C; 2 G; 2 T; 0 U; 0 Other;
XX
XX
XX Query Match 22.9%; Score 6.4; DB 1; Length 10;
XX Best Local Similarity 87.5%; Pred. No. 5.4e+02;

```

CC gene. The invention is useful for diagnosing, prognosing and treating  
CC cancers. It is also useful for screening drugs for cancer therapy and  
CC gene therapy

XX Sequence 16 BP; 3 A; 6 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 23.6%; Score 6.6; DB 1; Length 16;

Best Local Similarity 69.2%; Pred. No. 7e+02; Mismatches 4; Indels 0; Gaps 0;

Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

7 CTACGTGTACAG 19

13 CTTCTGTGACAG 1

RESULT 678

AA02583/C

AA02583 standard; DNA; 16 BP.

AC AA02583;

29-APR-2001 (first entry)

PCR primer X2B used in analysis of multiple tumour suppressor MTS1/2.

Human; multiple tumour suppressor; MTS1; MTS2; therapeutic; diagnostic;

cancer; gene therapy; melanoma; leukaemia; astrocytoma; glioblastoma;

lymphoma; glioma; Hodgkin's lymphoma; chronic lymphatic leukaemia;

PCR primer; ss.

Homo sapiens.

US6210949-B1.

03-APR-2001.

30-NOV-1998; 98US-00201139.

17-MAR-1995; 95WC-US003316.

07-JUN-1995; 95US-00487033.

28-JUL-1995; 95US-00508735.

(MYRI-) MYRIAD GENETICS INC.

Stone S, Jiang P, Kamb A;

WPI; 2001-280859/29.

New mouse multiple tumor suppressor gene, useful for diagnosing or

prognosing human cancer or as gene therapy for treating cancer.

particularly melanoma, leukemia, astrocytoma, lymphoma or cancers of the

pancreas or breast.

Example 13; Col 51; 80pp; English.

The sequence represents PCR primer X2B used in analysis of multiple

tumour suppressor MTS1 and MTS2. The MTS genes, and expression products,

are useful for treating, diagnosing or prognosing human cancer. In

particular, the MTS gene is useful for diagnosing a predisposition to or

as a gene therapy for melanoma, leukaemia, astrocytoma, glioblastoma,

lymphoma, Hodgkin's lymphoma, chronic lymphatic leukaemia (CLL),

or cancers of the pancreas, breast, thyroid, ovary, uterus, testis,

kidney, stomach or rectum. The gene may be used in both cancerous and pre-

-cancerous cells

Sequence 16 BP; 3 A; 6 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 23.6%; Score 6.6; DB 1; Length 16;

Best Local Similarity 69.2%; Pred. No. 7e+02;

Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

7 CTACGTGTACAG 19

Db 13 CTTCTGTGACAG 1

RESULT 679

AA04711/C

AA04711 standard; DNA; 16 BP.

AC AA04711;

04-JUL-2001 (first entry)

Human MTS and MTS1beta sequence amplifying primer, X2B.

Human; multiple tumour suppressor; MTS1beta; cytosolic;

germ line mutation; gene therapy; melanoma; leukaemia; astrocytoma; CLL;

glioblastoma; lymphoma; glioma; Hodgkin's lymphoma; cancer; rectum;

pancreas; breast; thyroid; ovary; uterus; testis; kidney; stomach;

somatic mutation; MTS; PCR primer; ss.

Homo sapiens.

US6218146-B1.

17-APR-2001.

22-JUL-1998; 98US-00120131.

18-MAR-1994; 94US-00214582.

18-MAR-1994; 94US-00215086.

14-APR-1994; 94US-00215087.

01-JUN-1994; 94US-00227369.

17-MAR-1995; 95WC-US003316.

07-JUN-1995; 95US-00486047.

(MYRI-) MYRIAD GENETICS INC.

Kamb A;

WPI; 2001-289831/30.

Novel multiple tumor suppressor proteins useful for diagnosis and

prognosis of human cancer and for screening drugs for cancer treatment.

Example 13; Col 52; 71pp; English.

The invention relates to somatic and germ line mutations in the multiple

tumour suppressor (MTS) gene in human cancer. The invention also relates

to therapy of human cancer which have a mutation in the MTS gene,

including gene therapy, protein replacement therapy, and protein

mutates. The MTS sequences are useful for diagnosing predisposition to

human cancer or for diagnosing and prognosing human cancers such as

melanoma, leukaemia, astrocytoma, glioblastoma, lymphoma, glioma,

Hodgkin's lymphoma, CLL and cancers of pancreas, breast, thyroid, ovary,

uterus, testis, kidney, stomach and rectum. They are also used for

screening drugs for cancer treatment. The present sequence is primer, X2B

used for amplifying human MTS and MTS1beta sequence

Sequence 16 BP; 3 A; 6 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 23.6%; Score 6.6; DB 1; Length 16;

Best Local Similarity 69.2%; Pred. No. 7e+02;

Matches 9; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

7 CTACGTGTACAG 19

13 CTTCTGTGACAG 1

RESULT 680

AA03090/C

AA03090 standard; DNA; 16 BP.



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XX 20-DEC-2001; 2001WO-EP015179.
PF 03-JAN-2001; 2001DE-01000127.
PR (HENKEL) HENKEL KGAA.
PA Petersohn D, Conradt M, Hofmann K;
PI WPI; 2002-590638/63.
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
XX e.g. skin cancer.
PS Disclosure; Page 51; 1345pp; German.
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 3 A; 2 C; 4 G; 2 T; 0 U; 0 Other;

Query Match      22.9%; Score 6.4; DB 1; Length 11;
Best Local Similarity 87.5%; Pred. No. 6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 19 GGAGTCCA 26
DB 8 GGATGCCA 1

RESULT 685
ABV70819/c
ID ABV70819 standard; cDNA, 11 BP.
XX
AC ABV70819;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 8605.
XX
KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENKEL) HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against

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PT e.g. skin cancer.
XX
XX Claim 24; Page 275; 1345pp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 3 A; 1 C; 4 G; 3 T; 0 U; 0 Other;

Query Match      22.9%; Score 6.4; DB 1; Length 11;
Best Local Similarity 87.5%; Pred. No. 6e+02;
Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 10 CGGTGACA 17
DB 11 CCGTGACA 4

RESULT 686
ABV63398/c
ID ABV63398 standard; cDNA, 11 BP.
XX
AC ABV63398;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 1184.
XX
KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENKEL) HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
XX e.g. skin cancer.
XX
PS Disclosure; Page 57; 1345pp; German.
XX
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;

```

CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the  
 CC skin. The present sequence is that of a human expressed sequence tag  
 CC (EST) of the invention

XX SQ Sequence 11 BP; 3 A; 1 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 22.9%; Score 6.4; DB 1; Length 11;  
 Best Local Similarity 87.5%; Pred. No. 6e+02;

Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 10 CGTGTACA 17  
 |||||  
 DB 11 CCTGTACA 4

RESULT 687  
 ABH73583  
 ID ABH73583 standard; DNA; 12 BP.

AC ABH73583;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 273568 for detecting SNP TSC0003234.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX Homo sapiens.

XX WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001MO-IB000713.

PR 07-APR-2000; 2000DE-01019173.

PA (EPig-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

DR WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.

PS Claim 1; SEQ ID NO 273568; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. AB000010  
 CC -AB099989, AB000010-AB099989, AB000010-AB099989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 12 BP; 2 A; 2 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 22.9%; Score 6.4; DB 1; Length 12;  
 Best Local Similarity 87.5%; Pred. No. 6.5e+02;

Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 8 TACGCTGA 15  
 |||||  
 DB 3 TACGCGTA 10

RESULT 688  
 AB110705/c  
 ID AB110705 standard; DNA; 12 BP.

XX AB110705;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 310678 for detecting SNP TSC0024049.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX Homo sapiens.

XX WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001MO-IB000713.

PR 07-APR-2000; 2000DE-01019173.

PA (EPig-) EPIGENOMICS AG.

PI Olek A, Piepenbrock C, Berlin K;

DR WPI; 2001-657177/75.

PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.

PS Claim 1; SEQ ID NO 310678; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. AB000010  
 CC -AB099989, AB000010-AB099989, AB000010-AB099989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

XX Sequence 12 BP; 3 A; 4 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 22.9%; Score 6.4; DB 1; Length 12;  
 Best Local Similarity 87.5%; Pred. No. 6.5e+02;

Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 8 TACGCTGA 15  
 |||||  
 DB 11 TACGCGTA 4

RESULT 689

AB116213/c  
 ID AB116213 standard; DNA; 12 BP.

XX AB116213;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 316186 for detecting SNP TSC0027326.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 OS Homo sapiens.  
 XX WO200177384-A2.  
 EN 18-OCT-2001.  
 PD 06-APR-2001; 2001WO-IB000713.  
 PF 07-APR-2000; 2000DE-01019173.  
 XX (EPIG-) EPIGENOMICS AG.  
 PA Olek A, Piepenbrock C, Berlin K;  
 PI WPI; 2001-657177/75.  
 DR WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 PS Claim 1; SEQ ID NO 316186; 29pp + Sequence Listing; German.  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 CC  
 SQ Sequence 12 BP; 4 A; 1 C; 5 G; 2 T; 0 U; 0 Other;  
 Query Match 22.9%; Score 6.4; DB 1; Length 12;  
 Best Local Similarity 87.5%; Pred. No. 6.5e+02;  
 Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 5 CCTACGT 12  
 Db 8 CCTACTT 1  
 RESULT 690  
 ABC49804  
 ID ABC49804 standard; DNA; 13 BP.  
 AC ABC49804;  
 XX 21-FEB-2002 (first entry)  
 DE Oligonucleotide SEQ ID NO 49821 for detecting SNP TSC0014053.  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 OS Homo sapiens.  
 XX WO200177384-A2.  
 EN 18-OCT-2001.  
 PD 06-APR-2001; 2001WO-IB000713.  
 PF 07-APR-2000; 2000DE-01019173.  
 XX

PA (EPIG-) EPIGENOMICS AG.  
 PI Olek A, Piepenbrock C, Berlin K;  
 PI WPI; 2001-657177/75.  
 DR WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 PS Claim 1; SEQ ID NO 49821; 29pp + Sequence Listing; German.  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 CC  
 SQ Sequence 13 BP; 2 A; 2 C; 4 G; 4 T; 0 U; 1 Other;  
 Query Match 22.9%; Score 6.4; DB 1; Length 13;  
 Best Local Similarity 87.5%; Pred. No. 6.8e+02;  
 Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;  
 QY 8 TACGTGA 15  
 Db 3 TACGCTA 10  
 RESULT 691  
 ABC49805/C  
 ID ABC49805 standard; DNA; 13 BP.  
 AC ABC49805;  
 XX 21-FEB-2002 (first entry)  
 DE Oligonucleotide SEQ ID NO 49822 for detecting SNP TSC0014053.  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 OS Homo sapiens.  
 XX WO200177384-A2.  
 EN 18-OCT-2001.  
 PD 06-APR-2001; 2001WO-IB000713.  
 PF 07-APR-2000; 2000DE-01019173.  
 XX (EPIG-) EPIGENOMICS AG.  
 PA Olek A, Piepenbrock C, Berlin K;  
 PI WPI; 2001-657177/75.  
 DR WPI; 2001-657177/75.  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 PS Claim 1; SEQ ID NO 49822; 29pp + Sequence Listing; German.  
 CC This invention describes novel oligonucleotide primers or peptide nucleic

CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

CC Sequence 13 BP; 4 A; 4 C; 2 G; 2 T; 0 U; 1 Other;

QY Query Match 22.9%; Score 6.4; DB 1; Length 13;  
 Best Local Similarity 87.5%; Pred. No. 6.8e+02;  
 Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

DB 8 TACGTGTA 15  
 11 TACGCCTA 4

RESULT 692

ABC37725  
 ID ABC37725 standard; DNA; 13 BP.  
 AC ABC37725;  
 XX  
 XX 20-FEB-2002 (first entry)  
 DT  
 XX  
 XX Oligonucleotide SEQ ID NO 37742 for detecting SNP TSC0011735.  
 DE  
 XX  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 OS Homo sapiens.  
 OS  
 PN WO200177384-A2.  
 XX  
 XX 18-OCT-2001.  
 PD  
 XX  
 XX 06-APR-2001; 2001WO-IB000713.  
 PF  
 XX  
 XX 07-APR-2000; 2000DE-01019173.  
 PR  
 XX  
 XX (EPIC-) EPIGENOMICS AG.  
 PA  
 XX  
 XX Olek A, Piepenbrock C, Berlin K;  
 PI  
 XX  
 XX WPI; 2001-657177/75.  
 DR  
 XX  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 PT  
 XX  
 XX Claim 1; SEQ ID NO 37742; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

CC Sequence 13 BP; 3 A; 4 C; 2 G; 4 T; 0 U; 0 Other;

QY Query Match 22.9%; Score 6.4; DB 1; Length 13;  
 Best Local Similarity 87.5%; Pred. No. 6.8e+02;  
 Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

DB 8 TACGTGTA 15  
 5 TACGCCTA 12

RESULT 693

ABC37724/C  
 ID ABC37724 standard; DNA; 13 BP.  
 AC ABC37724;  
 XX  
 XX 20-FEB-2002 (first entry)  
 DT  
 XX  
 XX Oligonucleotide SEQ ID NO 37741 for detecting SNP TSC0011735.  
 DE  
 XX  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 OS Homo sapiens.  
 OS  
 PN WO200177384-A2.  
 XX  
 XX 18-OCT-2001.  
 PD  
 XX  
 XX 06-APR-2001; 2001WO-IB000713.  
 PF  
 XX  
 XX 07-APR-2000; 2000DE-01019173.  
 PR  
 XX  
 XX (EPIC-) EPIGENOMICS AG.  
 PA  
 XX  
 XX Olek A, Piepenbrock C, Berlin K;  
 PI  
 XX  
 XX WPI; 2001-657177/75.  
 DR  
 XX  
 XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 PT  
 XX  
 XX Claim 1; SEQ ID NO 37741; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

CC Sequence 13 BP; 4 A; 2 C; 4 G; 3 T; 0 U; 0 Other;

QY Query Match 22.9%; Score 6.4; DB 1; Length 13;  
 Best Local Similarity 87.5%; Pred. No. 6.8e+02;  
 Matches 7; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

DB 8 TACGTGTA 15  
 9 TACGCCTA 2

RESULT 694

ADB00353/C  
 ID ADB00353 standard; DNA; 17 BP.



XX ADB00353;  
AC 20-NOV-2003 (first entry)  
DT  
XX  
DE Human MD23 scanning oligonucleotide SEQ ID 1339.  
XX  
XX Cytostatic; immunostimulant; gene therapy; vaccine; human;  
KM zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;  
XX chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
XX developmental disorder; ss.  
OS  
XX Homo sapiens.  
XX EPI281758-A2.  
XX  
XX 05-FEB-2003.  
XX  
XX 30-JUL-2002; 2002EP-00016874.  
XX  
XX 02-AUG-2001; 2001US-00922181.  
XX (AEOM-) AEOMICA INC.  
XX  
XX Shannon M, Gu Y, Nguyen C;  
PI  
XX WPI; 2003-423107/40.  
DR  
XX  
XX New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MD23,  
PT MD24, MD27 or MD212, e.g. cancer.  
XX  
XX Example 8; SEQ ID NO 1339; 103bp; English.  
XX  
XX The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is  
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MD23,  
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.  
XX  
XX Sequence 17 BP; 3 A; 5 C; 6 G; 3 T; 0 U; 0 Other;  
SQ  
Query Match 22.9%; Score 6.4; DB 1; Length 17;  
Best Local Similarity 62.5%; Pred. No. 7.4e-02;  
Matches 10; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 7 CTACGCTACAGGAG 22  
DB 17 CTCGCTGACACGTAG 2

KM zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;  
KM chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
KM developmental disorder; ss.  
XX  
XX Homo sapiens.  
XX EPI281758-A2.  
XX  
XX 05-FEB-2003.  
XX  
XX 30-JUL-2002; 2002EP-00016874.  
XX  
XX 02-AUG-2001; 2001US-00922181.  
XX (AEOM-) AEOMICA INC.  
XX  
XX Shannon M, Gu Y, Nguyen C;  
PI  
XX WPI; 2003-423107/40.  
DR  
XX  
XX New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MD23,  
PT MD24, MD27 or MD212, e.g. cancer.  
XX  
XX Example 8; SEQ ID NO 1340; 103bp; English.  
XX  
XX The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is  
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MD23,  
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.  
XX  
XX Sequence 17 BP; 3 A; 4 C; 6 G; 4 T; 0 U; 0 Other;  
SQ  
Query Match 22.9%; Score 6.4; DB 1; Length 17;  
Best Local Similarity 62.5%; Pred. No. 7.4e-02;  
Matches 10; Conservative 0; Mismatches 6; Indels 0; Gaps 0;  
QY 7 CTACGCTACAGGAG 22  
DB 16 CTCGCTGACACGTAG 1

RESULT 695  
ADB00354/C  
ID ADB00354 standard; DNA; 17 BP.  
XX  
XX ADB00354;  
XX  
XX 20-NOV-2003 (first entry)  
DT  
XX  
XX Human MD23 scanning oligonucleotide SEQ ID 1340.  
DE  
XX  
XX Cytostatic; immunostimulant; gene therapy; vaccine; human;  
KM

RESULT 696  
ADB00356/C  
ID ADB00356 standard; DNA; 17 BP.  
XX  
XX ADB00356;  
XX  
XX 20-NOV-2003 (first entry)  
DT  
XX  
XX Human MD23 scanning oligonucleotide SEQ ID 1342.  
DE  
XX  
XX Cytostatic; immunostimulant; gene therapy; vaccine; human;  
KM zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;  
KM chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
KM developmental disorder; ss.  
XX  
XX Homo sapiens.  
XX  
XX EPI281758-A2.  
XX



XX  
PS Example 8; SEQ ID NO 2837; 103pp; English.  
XX  
CC The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is  
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,  
CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MD23,  
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.

XX  
SQ Sequence 25 BP; 6 A; 6 C; 9 G; 4 T; 0 U; 0 Other;

QY Query Match 22.9%; Score 6.4; DB 1; Length 25;  
Best Local Similarity 62.5%; Pred. No. 5.9e+02;  
Matches 10; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Db 7 CTACGTGTACAGGAG 22  
24 CTCGCTGCACAGTAG 9

RESULT 699  
ADB01850/c  
ID ADB01850 standard; DNA; 25 BP.  
XX  
AC ADB01850;  
XX  
DT 20-NOV-2003 (first entry)  
XX  
DE Human MD23 scanning oligonucleotide SEQ ID 2836.  
XX  
KM Cytostatic; immunostimulant; gene therapy; vaccine; human;  
KM zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;  
KM chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;  
KM developmental disorder; ss.  
XX  
OS Homo sapiens.  
XX  
PN BP1281758-A2.  
XX  
PD 05-FEB-2003.  
XX  
PF 30-JUL-2002; 2002EP-00016874.  
XX  
PR 02-AUG-2001; 2001US-00922181.  
XX  
PA (AEOM-) AEOICA INC.  
XX  
PI Shannon M, Gu Y, Nguyen C;  
XX  
DR WPI; 2003-423107/40.  
XX  
XX New zinc finger-containing proteins and nucleic acids, useful in  
PT manufacturing a medicament for treating or preventing a disorder  
PT associated with decreased or increased expression or activity of MD23,  
PT MD24, MD27 or MD212, e.g. cancer.  
XX  
PS Example 8; SEQ ID NO 2836; 103pp; English.  
XX  
XX The present invention relates to novel human zinc finger-containing  
CC proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is  
CC encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,  
CC MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome  
CC 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,

CC or in manufacturing a medicament for treating or preventing a disorder  
CC associated with decreased or increased expression or activity of MD23,  
CC MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic  
CC acids and proteins are also useful for diagnosing or monitoring a disease  
CC caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic  
CC acids can also be used as probes to detect and characterize gross  
CC alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are  
CC useful in constructing microarrays for measuring gene expression. The  
CC proteins are useful as therapeutic agents for gene therapy or as  
CC vaccines. The present sequence was used to illustrate the invention.

XX  
SQ Sequence 25 BP; 7 A; 6 C; 9 G; 3 T; 0 U; 0 Other;

QY Query Match 22.9%; Score 6.4; DB 1; Length 25;  
Best Local Similarity 62.5%; Pred. No. 5.9e+02;  
Matches 10; Conservative 0; Mismatches 6; Indels 0; Gaps 0;

Db 7 CTACGTGTACAGGAG 22  
25 CTCGCTGCACAGTAG 10

RESULT 700  
AB100908  
ID AB100908 standard; DNA; 12 BP.  
XX  
AC AB100908;  
XX  
DT 22-FEB-2002 (first entry)  
XX  
DE Oligonucleotide primer SEQ ID NO 300881 for detecting SNP TSC0019231.  
XX  
KM SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
OS Homo sapiens.  
XX  
PN WO20017384-A2.  
XX  
PD 18-OCT-2001.  
XX  
PF 06-APR-2001; 2001WO-IB000713.  
XX  
PR 07-APR-2000; 2000DE-01019173.  
XX  
PA (EPIC-) EPICOMICS AG.  
XX  
PI Olek A, Piepenbrock C, Berlin K;  
XX  
DR WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
PS Claim 1; SEQ ID NO 300881; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABP00010-ABP99989, ABP00010-ABP99989 and ABP00010-ABP82073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 12 BP; 3 A; 6 C; 0 G; 3 T; 0 U; 0 Other;

Query Match 22.1%; Score 6.2; DB 1; Length 12;  
 Best Local Similarity 72.7%; Pred. No. 7e+02;  
 Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 7 CTACGTGTACA 17  
 |||||  
 Db 2 CTCCTCTACA 12

RESULT 701  
 AB154047  
 ID AB154047 standard; DNA; 12 BP.  
 AC AB154047;  
 XX  
 DT 22-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide primer SEQ ID NO 354020 for detecting SNP TSC004852.  
 XX  
 KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIC-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 354020; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -AB09989, ABP00010-ABP9989, ABH00010-ABH9989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

Sequence 12 BP; 3 A; 6 C; 0 G; 3 T; 0 U; 0 Other;

Query Match 22.1%; Score 6.2; DB 1; Length 12;  
 Best Local Similarity 72.7%; Pred. No. 7e+02;  
 Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 7 CTACGTGTACA 17  
 |||||  
 Db 1 CTCCTCTACA 11

RESULT 702  
 AB121821  
 ID AB121821 standard; DNA; 12 BP.

AC AB121821;  
 XX  
 DT 22-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide primer SEQ ID NO 321794 for detecting SNP TSC0030495.  
 XX  
 KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.  
 XX  
 PD 18-OCT-2001.  
 XX  
 PF 06-APR-2001; 2001WO-IB000713.  
 XX  
 PR 07-APR-2000; 2000DE-01019173.  
 XX  
 PA (EPIC-) EPIGENOMICS AG.  
 XX  
 PI Olek A, Piepenbrock C, Berlin K;  
 XX  
 DR WPI; 2001-657177/75.  
 XX  
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX  
 PS Claim 1; SEQ ID NO 321794; 29pp + Sequence Listing; German.  
 XX  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -AB09989, ABP00010-ABP9989, ABH00010-ABH9989 and AB100010-AB182073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

Sequence 12 BP; 4 A; 5 C; 0 G; 3 T; 0 U; 0 Other;

Query Match 22.1%; Score 6.2; DB 1; Length 12;  
 Best Local Similarity 72.7%; Pred. No. 7e+02;  
 Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

OY 7 CTACGTGTACA 17  
 |||||  
 Db 1 CTCCTCTACA 11

RESULT 703  
 ABH71301/c  
 ID ABH71301 standard; DNA; 12 BP.  
 AC ABH71301;  
 XX  
 DT 22-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide primer SEQ ID NO 271278 for detecting SNP TSC0002450.  
 XX  
 KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 OS Homo sapiens.  
 XX  
 PN WO200177384-A2.

XX 18-OCT-2001.  
 PD 06-APR-2001; 2001WO-IB000713.  
 XX 07-APR-2000; 2000DE-01019173.  
 XX (EPIC-) EPIDENOMICS AG.  
 XX Olek A, Piepenbrock C, Berlin K;  
 PI WPI; 2001-657177/75.  
 DR Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX Claim 1; SEQ ID NO 271278; 29pp + Sequence Listing; German.  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 SQ Sequence 12 BP; 3 A; 4 C; 1 G; 4 T; 0 U; 0 Other;  
 QY Query Match 22.1%; Score 6.2; DB 1; Length 12;  
 Db Best Local Similarity 72.7%; Pred. No. 7e+02; Indels 0; Gaps 0;  
 Matches 8; Conservative 0; Mismatches 3;  
 12 TGTACAGGAG 22  
 12 TGTATACGAAG 2  
 RESULT 704  
 AB137455/c  
 ID AB137455 standard; DNA; 12 BP.  
 XX AB137455;  
 AC 22-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide primer SEQ ID NO 337428 for detecting SNP TSC0039870.  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX Homo sapiens.  
 OS  
 XX WO200177384-A2.  
 XX 18-OCT-2001.  
 PD 06-APR-2001; 2001WO-IB000713.  
 PF 07-APR-2000; 2000DE-01019173.  
 PR (EPIC-) EPIDENOMICS AG.  
 XX Olek A, Piepenbrock C, Berlin K;  
 PI WPI; 2001-657177/75.  
 DR

PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX Claim 1; SEQ ID NO 337428; 29pp + Sequence Listing; German.  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010  
 CC -ABC9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences  
 SQ Sequence 12 BP; 4 A; 0 C; 5 G; 3 T; 0 U; 0 Other;  
 QY Query Match 22.1%; Score 6.2; DB 1; Length 12;  
 Db Best Local Similarity 72.7%; Pred. No. 7e+02; Indels 0; Gaps 0;  
 Matches 8; Conservative 0; Mismatches 3;  
 7 CTACGTGTACA 17  
 11 CTCCTTGTACA 1  
 RESULT 705  
 AB172643  
 ID AB172643 standard; DNA; 12 BP.  
 XX AB172643;  
 AC 22-FEB-2002 (first entry)  
 XX  
 DE Oligonucleotide primer SEQ ID NO 372616 for detecting SNP TSC0059501.  
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
 XX Homo sapiens.  
 OS  
 XX WO200177384-A2.  
 XX 18-OCT-2001.  
 PD 06-APR-2001; 2001WO-IB000713.  
 PF 07-APR-2000; 2000DE-01019173.  
 PR (EPIC-) EPIDENOMICS AG.  
 XX Olek A, Piepenbrock C, Berlin K;  
 PI WPI; 2001-657177/75.  
 DR Set of oligonucleotides, useful for diagnosis and cell typing, is  
 PT designed to detect single-nucleotide polymorphisms and cytosine  
 PT methylation status.  
 XX Claim 1; SEQ ID NO 372616; 29pp + Sequence Listing; German.  
 CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC00010

CC -ABCG9989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

SC Sequence 12 BP; 5 A; 4 C; 0 G; 3 T; 0 U; 0 Other;

Query Match 22.1%; Score 6.2; DB 1; Length 12;  
 Best Local Similarity 72.7%; Pred. No. 7e+02;  
 Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 7 CTACGTGTACA 17  
 Db 2 CTCCTATATACA 12

RESULT 706  
 ABH72448/C  
 ID ABH72448 standard; DNA; 12 BP.

AC ABH72448;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 272433 for detecting SNP TSC0002816.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

OS WO200177384-A2.

PN 18-OCT-2001.

PD 06-APR-2001; 2001WO-IB000713.

PF 07-APR-2000; 2000DE-01019173.

PR (EPIC-) EPIGENOMICS AG.

PA Olek A, Piepenbrock C, Berlin K;

PI WPI; 2001-657177/75.

DR Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single-nucleotide polymorphisms and cytosine

PS methylation status.

XX Claim 1; SEQ ID NO 272433; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC000010  
 CC -ABCG9989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

SC Sequence 12 BP; 5 A; 4 C; 0 G; 3 T; 0 U; 0 Other;

Query Match 22.1%; Score 6.2; DB 1; Length 12;  
 Best Local Similarity 72.7%; Pred. No. 7e+02;  
 Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 12 TGTACAGGAG 22

Db 12 TGTATATGAG 2

RESULT 707  
 ABH22910/C  
 ID ABH22910 standard; DNA; 12 BP.

AC ABH22910;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide primer SEQ ID NO 322883 for detecting SNP TSC0031094.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

OS WO200177384-A2.

PN 18-OCT-2001.

PD 06-APR-2001; 2001WO-IB000713.

PF 07-APR-2000; 2000DE-01019173.

PR (EPIC-) EPIGENOMICS AG.

PA Olek A, Piepenbrock C, Berlin K;

PI WPI; 2001-657177/75.

DR Set of oligonucleotides, useful for diagnosis and cell typing, is

PT designed to detect single-nucleotide polymorphisms and cytosine

PS methylation status.

XX Claim 1; SEQ ID NO 322883; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic  
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
 CC and cytosine methylation status in chemically pretreated genomic DNA. The  
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
 CC range of diseases including immune system, gastrointestinal, respiratory,  
 CC central nervous system, cardiovascular and metabolic disorders. The  
 CC oligomers are also used for detecting cell type differentiation. ABC000010  
 CC -ABCG9989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073  
 CC represent the oligomers described in the invention. NOTE: The sequence  
 CC data for this patent did not form part of the printed specification, but  
 CC was obtained in electronic format from WIPO at  
 CC ftp.wipo.int/pub/published\_pct\_sequences

SC Sequence 12 BP; 3 A; 0 C; 8 G; 1 T; 0 U; 0 Other;

Query Match 22.1%; Score 6.2; DB 1; Length 12;  
 Best Local Similarity 72.7%; Pred. No. 7e+02;  
 Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 6 CCTACGTGTAC 16  
 Db 12 CTCCTCTCTAC 2

RESULT 708  
 ABF18028  
 ID ABF18028 standard; DNA; 13 BP.

AC ABF18028;

DT 21-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 118025 for detecting SNP TSC0029509.

XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
OS Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
XX  
XX 06-APR-2001; 2001WO-IB000713.  
XX  
XX 07-APR-2000; 2000DE-01019173.  
XX  
XX (EPig-) EPiGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX MPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
PS  
XX Claim 1; SEQ ID NO 118025; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
XX Sequence 13 BP; 4 A; 0 C; 6 G; 3 T; 0 U; 0 Other;  
SQ  
XX  
XX Query Match 22.1%; Score 6.2; DB 1; Length 13;  
XX Best Local Similarity 72.7%; Pred. No. 7.3e+02;  
XX Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 12 TGTACAGGAG 22  
DB 1 TGTAGAGTAG 11  
XX  
XX RESULT 709  
XX ABF18029/c  
XX ID ABF18029 standard; DNA; 13 BP.  
XX  
XX ABF18029;  
XX  
XX 21-FEB-2002 (first entry)  
XX  
XX Oligonucleotide SEQ ID NO 118026 for detecting SNP TSC0029509.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
XX  
XX 06-APR-2001; 2001WO-IB000713.  
XX

PR 07-APR-2000; 2000DE-01019173.  
XX  
XX (EPig-) EPiGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX MPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX Claim 1; SEQ ID NO 118026; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
XX Sequence 13 BP; 3 A; 6 C; 0 G; 4 T; 0 U; 0 Other;  
SQ  
XX  
XX Query Match 22.1%; Score 6.2; DB 1; Length 13;  
XX Best Local Similarity 72.7%; Pred. No. 7.3e+02;  
XX Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
QY 12 TGTACAGGAG 22  
DB 13 TGTAGAGTAG 3  
XX  
XX RESULT 710  
XX ABC90236/c  
XX ID ABC90236 standard; DNA; 13 BP.  
XX  
XX ABC90236;  
XX  
XX 21-FEB-2002 (first entry)  
XX  
XX Oligonucleotide SEQ ID NO 90253 for detecting SNP TSC0022616.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
XX  
XX 06-APR-2001; 2001WO-IB000713.  
XX  
XX 07-APR-2000; 2000DE-01019173.  
XX  
XX (EPig-) EPiGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX MPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
PS  
XX Claim 1; SEQ ID NO 90253; 29pp + Sequence Listing; German.  
XX

XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC000010-ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published\_pct\_sequences

SQ Sequence 13 BP; 4 A; 2 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 22.1%; Score 6.2; DB 1; Length 13;  
Best Local Similarity 72.7%; Pred. No. 7.3e+02;  
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 13 GTACAGGAGT 23  
Db 12 GTACACGTATT 2

RESULT 711  
ABC00237  
ID ABC90237 standard; DNA; 13 BP.  
AC ABC90237;  
XX  
XX 21-FEB-2002 (first entry)  
DT  
XX  
DE Oligonucleotide SEQ ID NO 90254 for detecting SNP TSC0022616.  
XX  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
OS Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
PD  
XX  
XX 06-APR-2001; 2001WO-IB000713.  
PF  
XX  
XX 07-APR-2000; 2000DE-01019173.  
PR  
XX  
XX (EPIG-) EPIGENOMICS AG.  
PA  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
PI  
XX  
XX WPI; 2001-657177/75.  
DR  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX  
XX Claim 1, SEQ ID NO 90254; 29bp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC000010-ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published\_pct\_sequences

XX SQ Sequence 13 BP; 4 A; 3 C; 2 G; 4 T; 0 U; 0 Other;

Query Match 22.1%; Score 6.2; DB 1; Length 13;  
Best Local Similarity 72.7%; Pred. No. 7.3e+02;  
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 13 GTACAGGAGT 23  
Db 2 GTACACGTATT 12

RESULT 712  
ABF36729  
ID ABF36729 standard; DNA; 13 BP.  
XX  
XX ABF36729;  
AC  
XX  
XX 21-FEB-2002 (first entry)  
DT  
XX  
DE Oligonucleotide SEQ ID NO 136726 for detecting SNP TSC0034175.  
XX  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS; peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
OS Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
PD  
XX  
XX 06-APR-2001; 2001WO-IB000713.  
PF  
XX  
XX 07-APR-2000; 2000DE-01019173.  
PR  
XX  
XX (EPIG-) EPIGENOMICS AG.  
PA  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
PI  
XX  
XX WPI; 2001-657177/75.  
DR  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX  
XX Claim 1, SEQ ID NO 136726; 29bp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC000010-ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format from WIPO at ftp.wipo.int/pub/published\_pct\_sequences

SQ Sequence 13 BP; 4 A; 4 C; 0 G; 5 T; 0 U; 0 Other;

Query Match 22.1%; Score 6.2; DB 1; Length 13;  
Best Local Similarity 72.7%; Pred. No. 7.3e+02;  
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 7 CTACGTGTACA 17  
Db 3 CTCACATTACA 13

RESULT 713



ABF60519  
ID ABF60519 standard; DNA; 13 BP.  
XX  
AC ABF60519;  
XX  
DT 22-FEB-2002 (first entry)  
XX  
DE Oligonucleotide SEQ ID NO 160516 for detecting SNP TSC0040412.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
OS Homo sapiens.  
XX  
PN WO200177384-A2.  
XX  
PD 18-OCT-2001.  
XX  
PF 06-APR-2001; 2001WO-IB000713.  
XX  
PR 07-APR-2000; 2000DE-01019173.  
XX  
PA (EPIC-) EPIGENOMICS AG.  
XX  
PI Olek A, Piepenbrock C, Berlin K;  
XX  
DR WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
PS Claim 1; SEQ ID NO 160516; 29pp + Sequence Listing; German.  
XX  
CC This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 13 BP; 3 A; 6 C; 0 G; 4 T; 0 U; 0 Other;  
XX  
Query Match 22.1%; Score 6.2; DB 1; Length 13;  
Best Local Similarity 72.7%; Pred. No. 7.3e+02;  
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
XX  
QY 7 CTACGTGTACA 17  
DB 1 CTCCTTTTACA 11  
XX  
RESULT 714  
ABF60516/c  
ID ABF60516 standard; DNA; 13 BP.  
XX  
AC ABF60516;  
XX  
DT 22-FEB-2002 (first entry)  
XX  
DE Oligonucleotide SEQ ID NO 160513 for detecting SNP TSC0040412.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX

OS Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
PN 18-OCT-2001.  
XX  
PD 06-APR-2001; 2001WO-IB000713.  
XX  
PF 07-APR-2000; 2000DE-01019173.  
XX  
PR (EPIC-) EPIGENOMICS AG.  
XX  
PI Olek A, Piepenbrock C, Berlin K;  
XX  
DR WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
PS Claim 1; SEQ ID NO 160513; 29pp + Sequence Listing; German.  
XX  
CC This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 13 BP; 5 A; 0 C; 5 G; 3 T; 0 U; 0 Other;  
XX  
Query Match 22.1%; Score 6.2; DB 1; Length 13;  
Best Local Similarity 72.7%; Pred. No. 7.3e+02;  
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
XX  
QY 7 CTACGTGTACA 17  
DB 13 CTCCTTTTACA 3  
XX  
RESULT 715  
ABCS6486  
ID ABCS6486 standard; DNA; 13 BP.  
XX  
AC ABCS6486;  
XX  
DT 21-FEB-2002 (first entry)  
XX  
DE Oligonucleotide SEQ ID NO 56503 for detecting SNP TSC0015314.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
OS Homo sapiens.  
XX  
PN WO200177384-A2.  
XX  
PD 18-OCT-2001.  
XX  
PF 06-APR-2001; 2001WO-IB000713.  
XX  
PR 07-APR-2000; 2000DE-01019173.  
XX  
PA (EPIC-) EPIGENOMICS AG.  
XX  
PI Olek A, Piepenbrock C, Berlin K;  
XX

XX DR WPI; 2001-657177/75.  
XX PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX PS  
XX Claim 1; SEQ ID NO 56503; 29bp + Sequence Listing; German.  
XX  
CC This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 13 BP; 4 A; 1 C; 5 G; 3 T; 0 U; 0 Other;  
XX  
Query Match 22.1%; Score 6.2; DB 1; Length 13;  
Best Local Similarity 72.7%; Pred. No. 7.3e+02;  
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
XX  
OY 13 GTACAGGAGT 23  
Db 2 GTAAAGTAGT 12  
XX  
RESULT 716  
ABF82918  
ID ABF82918 standard; DNA; 13 BP.  
XX  
AC ABF82918;  
XX  
DT 22-FEB-2002 (first entry)  
XX  
DE Oligonucleotide SEQ ID NO 182915 for detecting SNP TSC0045193.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
OS Homo sapiens.  
XX  
PN WO200177384-A2.  
XX  
PD 18-OCT-2001.  
XX  
PF 06-APR-2001; 2001MO-IB000713.  
XX  
PR 07-APR-2000; 2000DE-01019173.  
XX  
PA (EPIG-) EPIGENOMICS AG.  
XX  
PI Olek A, Piepenbrock C, Berlin K;  
XX  
XX WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX Claim 1; SEQ ID NO 182915; 29bp + Sequence Listing; German.  
XX  
CC This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX

CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 13 BP; 3 A; 0 C; 4 G; 6 T; 0 U; 0 Other;  
XX  
Query Match 22.1%; Score 6.2; DB 1; Length 13;  
Best Local Similarity 72.7%; Pred. No. 7.3e+02;  
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
XX  
OY 12 TGTACAGGAG 22  
Db 2 TGTATATAGTAG 12  
XX  
RESULT 717  
ABF36728/c  
ID ABF36728 standard; DNA; 13 BP.  
XX  
AC ABF36728;  
XX  
DT 21-FEB-2002 (first entry)  
XX  
DE Oligonucleotide SEQ ID NO 136725 for detecting SNP TSC0034175.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
OS Homo sapiens.  
XX  
PN WO200177384-A2.  
XX  
PD 18-OCT-2001.  
XX  
PF 06-APR-2001; 2001MO-IB000713.  
XX  
PR 07-APR-2000; 2000DE-01019173.  
XX  
PA (EPIG-) EPIGENOMICS AG.  
XX  
PI Olek A, Piepenbrock C, Berlin K;  
XX  
XX WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX Claim 1; SEQ ID NO 136725; 29bp + Sequence Listing; German.  
XX  
CC This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 13 BP; 5 A; 0 C; 4 G; 4 T; 0 U; 0 Other;  
XX  
Query Match 22.1%; Score 6.2; DB 1; Length 13;  
Best Local Similarity 72.7%; Pred. No. 7.3e+02;  
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
XX

Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 7 CTACGTGTA 17  
Db 11 CTCCTTTACA 1

## RESULT 718

ABF20036  
ID ABF20036 standard; DNA; 13 BP.

AC ABF20036;  
XX

DT 21-FEB-2002 (first entry)  
XX

DE Oligonucleotide SEQ ID NO 120033 for detecting SNP TSC0029958.  
XX

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX

OS Homo sapiens.  
XX

PN WO200177384-A2.  
XX

PD 18-OCT-2001.  
XX

PF 06-APR-2001; 2001WO-IB000713.  
XX

PR 07-APR-2000; 2000DE-01019173.  
XX

PA (EPIC-) EPIGENOMICS AG.  
XX

PI Olek A, Piepenbrock C, Berlin K;  
XX

DR WPI; 2001-657177/75.  
XX

PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
designed to detect single-nucleotide polymorphisms and cytosine  
methylation status.  
XX

PS Claim 1; SEQ ID NO 120033; 29bp + Sequence Listing; German.  
XX

CC This invention describes novel oligonucleotide primers or peptide nucleic  
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
and cytosine methylation status in chemically pretreated genomic DNA. The  
oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
range of diseases including immune system, gastrointestinal, respiratory,  
central nervous system, cardiovascular and metabolic disorders. The  
oligonucleotides are also used for detecting cell type differentiation. ABC00010  
-ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
represent the oligomers described in the invention. NOTE: The sequence  
data for this patent did not form part of the printed specification, but  
was obtained in electronic format from WIPO at  
ftp.wipo.int/pub/published\_pct\_sequences

CC Sequence 13 BP; 6 A; 0 C; 4 G; 3 T; 0 U; 0 Other;  
XX

Query Match 22.1%; Score 6.2; DB 1; Length 13;  
Best Local Similarity 72.7%; Pred. No. 7.3e+02;

Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 12 TGTACAGGAG 22  
Db 2 TGTAAAGTGG 12

## RESULT 719

ABF60517  
ID ABF60517 standard; DNA; 13 BP.

AC ABF60517;  
XX

DT 22-FEB-2002 (first entry)  
XX

DE Oligonucleotide SEQ ID NO 160514 for detecting SNP TSC0040412.  
XX

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX

OS Homo sapiens.  
XX

PN WO200177384-A2.  
XX

PD 18-OCT-2001.  
XX

PF 06-APR-2001; 2001WO-IB000713.  
XX

PR 07-APR-2000; 2000DE-01019173.  
XX

PA (EPIC-) EPIGENOMICS AG.  
XX

PI Olek A, Piepenbrock C, Berlin K;  
XX

DR WPI; 2001-657177/75.  
XX

PT Set of oligonucleotides, useful for diagnosis and cell typing, is  
designed to detect single-nucleotide polymorphisms and cytosine  
methylation status.  
XX

PS Claim 1; SEQ ID NO 160514; 29bp + Sequence Listing; German.  
XX

CC This invention describes novel oligonucleotide primers or peptide nucleic  
acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
and cytosine methylation status in chemically pretreated genomic DNA. The  
oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
range of diseases including immune system, gastrointestinal, respiratory,  
central nervous system, cardiovascular and metabolic disorders. The  
oligonucleotides are also used for detecting cell type differentiation. ABC00010  
-ABG99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
represent the oligomers described in the invention. NOTE: The sequence  
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CC Sequence 13 BP; 3 A; 5 C; 0 G; 5 T; 0 U; 0 Other;  
XX

Query Match 22.1%; Score 6.2; DB 1; Length 13;  
Best Local Similarity 72.7%; Pred. No. 7.3e+02;

Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 7 CTACGTGTA 17  
Db 1 CTCCTTTACA 11

## RESULT 720

ABF20037/C  
ID ABF20037 standard; DNA; 13 BP.

AC ABF20037;  
XX

DT 21-FEB-2002 (first entry)  
XX

DE Oligonucleotide SEQ ID NO 120034 for detecting SNP TSC0029958.  
XX

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KM central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX

OS Homo sapiens.  
XX

PN WO200177384-A2.  
XX

PD 18-OCT-2001.  
XX

XX PF 06-APR-2001; 2001WO-IB000713.  
XX PR 07-APR-2000; 2000DE-01019173.  
XX  
XX (EPIC-) EPIGENOMICS AG.  
XX PI Olek A, Piepenbrock C, Berlin K;  
XX DR WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX Claim 1; SEQ ID NO 120034; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
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CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 13 BP; 3 A; 4 C; 0 G; 6 T; 0 U; 0 Other;  
XX  
XX Query Match 22.1%; Score 6.2; DB 1; Length 13;  
XX Best Local Similarity 72.7%; Pred. No. 7.3e+02;  
XX Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
XX  
QY 12 TGTACAGGAG 22  
DB 12 TGTAAAAAGTAG 2  
XX  
XX RESULT 721  
XX ABF0518/c  
XX ID ABF0518 standard; DNA; 13 BP.  
XX  
XX ABF0518;  
XX  
XX 22-FEB-2002 (first entry)  
XX  
XX Oligonucleotide SEQ ID NO 160515 for detecting SNP TSC0040412.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
XX  
XX 06-APR-2001; 2001WO-IB000713.  
XX  
XX 07-APR-2000; 2000DE-01019173.  
XX  
XX (EPIC-) EPIGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine

PT methylation status.  
XX  
XX Claim 1; SEQ ID NO 160515; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX  
SQ Sequence 13 BP; 4 A; 0 C; 6 G; 3 T; 0 U; 0 Other;  
XX  
XX Query Match 22.1%; Score 6.2; DB 1; Length 13;  
XX Best Local Similarity 72.7%; Pred. No. 7.3e+02;  
XX Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
XX  
QY 7 CTACGTGACA 17  
DB 13 CTCCTTCTACA 3  
XX  
XX RESULT 722  
XX ABC56487/c  
XX ID ABC56487 standard; DNA; 13 BP.  
XX  
XX ABC56487;  
XX  
XX 21-FEB-2002 (first entry)  
XX  
XX Oligonucleotide SEQ ID NO 56504 for detecting SNP TSC0015314.  
XX  
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;  
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.  
XX  
XX Homo sapiens.  
XX  
XX WO200177384-A2.  
XX  
XX 18-OCT-2001.  
XX  
XX 06-APR-2001; 2001WO-IB000713.  
XX  
XX 07-APR-2000; 2000DE-01019173.  
XX  
XX (EPIC-) EPIGENOMICS AG.  
XX  
XX Olek A, Piepenbrock C, Berlin K;  
XX  
XX WPI; 2001-657177/75.  
XX  
XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.  
XX  
XX Claim 1; SEQ ID NO 56504; 29pp + Sequence Listing; German.  
XX  
XX This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073  
CC represent the oligomers described in the invention. NOTE: The sequence

CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX

Sequence 13 BP; 3 A; 5 C; 1 G; 4 T; 0 U; 0 Other;

Query Match 22.1%; Score 6.2; DB 1; Length 13;  
Best Local Similarity 72.7%; Pred. No. 7.3e+02;  
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

13 GTACAGGAGT 23  
12 GTAAAGTNGT 2

RESULT 723  
ABF82919/C  
ID ABF82919 standard; DNA; 13 BP.

XX ABF82919;

DT 22-FEB-2002 (first entry)

DE Oligonucleotide SEQ ID NO 182916 for detecting SNP TSC045193.

XX SNP; single nucleotide polymorphism; human; diagnosis; PMA; cancer; CNS;  
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;  
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

PN WO200177384-A2.

PD 18-OCT-2001.

PF 06-APR-2001; 2001WO-IB000713.

PR 07-APR-2000; 2000DE-01019173.

PA (EPIG-) EPIGENOMICS AG.

PI Olek A, Piegenbrock C, Berlin K;

DR WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is  
PT designed to detect single-nucleotide polymorphisms and cytosine  
PT methylation status.

PS Claim 1; SEQ ID NO 182916; 29pp + Sequence Listing; German.

CC This invention describes novel oligonucleotide primers or peptide nucleic  
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)  
CC and cytosine methylation status in chemically pretreated genomic DNA. The  
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a  
CC range of diseases including immune system, gastrointestinal, respiratory,  
CC central nervous system, cardiovascular and metabolic disorders. The  
CC oligomers are also used for detecting cell type differentiation. ABC00010  
CC -ABG9989, ABF00010-ABF9989, ABH00010-ABH9989 and ABI00010-ABI82073  
CC represent the oligomers described in the invention. NOTE: The sequence  
CC data for this patent did not form part of the printed specification, but  
CC was obtained in electronic format from WIPO at  
CC ftp.wipo.int/pub/published\_pct\_sequences  
XX

Sequence 13 BP; 6 A; 4 C; 0 G; 3 T; 0 U; 0 Other;

Query Match 22.1%; Score 6.2; DB 1; Length 13;  
Best Local Similarity 72.7%; Pred. No. 7.3e+02;  
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

12 TGTACAGGAG 22  
12 TGTATATGTNG 2

RESULT 724

AAF46048  
ID AAF46048 standard; DNA; 15 BP.

XX AAF46048;

DT 30-MAR-2001 (first entry)

DB IGFBP2 oligonucleotide #887.

XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
KW cytosolic; dermatological; cardiant; vitruce; ophthalmological; keloid;  
KW skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;  
KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;  
KW growth factor mediated cell proliferation; ichthyosis; seborrhea; ruba;  
KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
KW hyperneovascular condition; hyperplasia; kidney disease;  
KW neovascular condition of the retina; ss.

XX Homo sapiens.

PN WO200078341-A1.

PD 28-DEC-2000.

PF 21-JUN-2000; 2000WO-AU000693.

PR 21-JUN-1999; 99US-0140345P.

PA (MURD-) MURDOCH CHILDRENS RES INST.

PI Wright CJ, Werther GA, Edmondson SR;

DR WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
PT UV (ultra-violet) treatment (optional), and an antisense nucleic acid that  
PT inhibits or reduces growth factor mediated cell proliferation and/or  
PT inflammation.

PS Example 6; Page 39; 201pp; English.

CC The present invention relates to a method for ameliorating the effects of  
CC skin disorders. The method comprises contacting the skin with an  
CC antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1  
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
CC inhibiting or reducing growth factor mediated cell proliferation,  
CC inflammation and/or other disorders. The present sequence is an  
CC oligonucleotide which can be used to design the antisense  
CC oligonucleotides of the present invention (see AAF45151 and AAF4513-  
CC P45161). The method is useful for ameliorating the effects of psoriasis,  
CC ichthyosis, pityriasis, ruba, pilaris, seborrhea, keloids, keratosis,  
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
CC hyperneovascular condition such as a neovascular condition of the retina,  
CC brain or skin, growth factor-mediated malignancies, other sclerotic  
CC disease, kidney disease, hyperproliferation of the inside of blood  
CC vessels or any other hyperplasia  
XX

Sequence 15 BP; 3 A; 8 C; 1 G; 3 T; 0 U; 0 Other;

Query Match 22.1%; Score 6.2; DB 1; Length 15;  
Best Local Similarity 72.7%; Pred. No. 7.7e+02;  
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

7 CTACGCTACA 17  
2 CTCCTCCACA 12

RESULT 725  
AAF46045

ID	AAFA6045	standard; DNA; 15 BP.
AC	AAFA6045;	
XX		
DT	30-MAR-2001	(first entry)
XX		
DE	IGFBP2 oligonucleotide #884.	
XX		
KW	Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;	
KW	glycylsulfate; dermatological; cardiac; virucide; ophthalmological; keloid;	
KW	skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; piliarysis;	
KW	IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;	
KW	growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba;	
KW	keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;	
KW	hyperovascular condition; hyperplasia; kidney disease;	
KW	neovascular condition of the retina; ss.	
XX		
OS	Homo sapiens.	
XX		
PN	W0200078341-A1.	
PD	28-DEC-2000.	
XX		
PF	21-JUN-2000; 2000MO-AU000693.	
XX		
FR	21-JUN-1999; 99US-0140345P.	
XX		
PA	(MURD-) MURDOCH CHILDRENS RES INST.	
XX		
PT	Wright CJ, Werther GA, Edmondson SR;	
XX		
DR	WPI; 2001-041421/05.	
PT	Ameliorating the effects of a disorder, e.g. psoriasis, by administering	
PT	UV (ultra-violet) treatment (optional) and an antisense nucleic acid that	
PT	inhibits or reduces growth factor mediated cell proliferation and/or	
PT	inflammation.	
PS		
XX	Example 6; Page 39; 201pp; English.	
XX		
CC	The present invention relates to a method for ameliorating the effects of	
CC	skin disorders. The method comprises contacting the skin with an	
CC	antisense oligonucleotide, (for insulin-like Growth Factor (IGF)-1	
CC	receptor, IGF binding protein (IGFBP)-2 or IGFBP3), which is capable of	
CC	inhibiting or reducing growth factor mediated cell proliferation,	
CC	inflammation and/or other disorders. The present sequence is an	
CC	oligonucleotide which can be used to design the antisense	
CC	oligonucleotide of the present invention (see AAF45151 and AAF45153-	
CC	F45161). The method is useful for ameliorating the effects of psoriasis,	
CC	ichthyosis, piliarysis, ruba, pilaris, seborrhoea, keloids, keratosis,	
CC	neoplasia, scleroderma, warts, benign growths, cancers of the skin, a	
CC	hyperneovascular condition such as a neovascular condition of the retina,	
CC	brain or skin, growth factor-mediated melanomas, other sclerotic	
CC	disease, kidney disease, hyperproliferation of the inside of blood	
CC	vessels or any other hyperplasia	
XX		
SQ	Sequence 15 BP; 3 A; 7 C; 1 G; 4 T; 0 U; 0 Other;	
Query Match	22.1%;	Score 6.2; DB 1; Length 15;
Best Local Similarity	72.7%;	Pred. No. 7,7e+02;
Matches	8; Conservative	0; Mismatches 3; Indels 0; Gaps 0
QY	7 CTACGTGTACA 17	
Db	5 CTCCTGTGACA 15	
RESULT 726		
ID	AAFA6046	
XX	AAFA6046 standard; DNA; 15 BP.	
AC	AAFA6046;	
XX		

XX	30-MAR-2001	(first entry)	
DE	IGFBP2 oligonucleotide #885.		
KM	Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;		
KM	cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;		
KM	skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; ptyriasis;		
KM	IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;		
KM	growth factor mediated cell proliferation; ichthyosis; serborrhea; ruba;		
KM	keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;		
KM	hyperneovascular condition; hyperplasia; kidney disease;		
KM	neovascular condition of the retina; ss.		
OS	Homo sapiens.		
PN	W0200078341-A1.		
XX	28-DEC-2000.		
PD			
XX	21-JUN-2000; 2000WO-AU000693.		
XX	21-JUN-1999; 99US-0140345P.		
XX	(MURD-) MURDOCH CHILDRENS RES INST.		
XX	Wright CJ, Werther GA, Edmondson SR;		
XX	WPI, 2001-041421/05.		
DR			
XX			
PT	Ameliorating the effects of a disorder, e.g. psoriasis, by administering		
PT	UV (ultra-violet) treatment (optional) and an antisense nucleic acid that		
PT	inhibits or reduces growth factor mediated cell proliferation and/or		
PT	inflammation.		
XX			
XX	Example 6, Page 39; 201pp; English.		
PS			
XX			
CC	The present invention relates to a method for ameliorating the effects of		
CC	skin disorders. The method comprises contacting the skin with an		
CC	antisense oligonucleotide, (for insulin-like growth factor [IGF]-1		
CC	receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of		
CC	inhibiting or reducing growth factor mediated cell proliferation,		
CC	inflammation and/or other disorders. The present sequence is an		
CC	oligonucleotide which can be used to design the antisense		
CC	oligonucleotides of the present invention (see AAF45151 and AAF45153-		
CC	FA161). The method is useful for ameliorating the effects of psoriasis,		
CC	ichthyosis, pityriasis, ruba, pilaris, serborrhea, keloids, keratosis,		
CC	neoplasia, scleroderma, warts, benign growths, cancers of the skin, a		
CC	hyperneovascular condition such as a neovascular condition of the retina,		
CC	brain or skin, growth factor-mediated malignancies, other sclerotic		
CC	disease, kidney disease, hyperproliferation of the inside of blood		
CC	vessels or any other hyperplasia		
XX			
XX	Sequence 15 BP, 3 A; 7 C; 1 G; 4 T; 0 U; 0 Other;		
QY			
DB			
QY	7 CTACGTACCA 17		
DB	4 CTCCTGCACA 14		
XX			
XX	Query Match 22.1%; Score 6.2; DB 1; Length 15;		
XX	Best Local Similarity 72.7%; Pred. No. 7.7e+02;		
XX	Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;		
XX			
XX	RESULT 727		
XX	AAF46047		
XX	ID AAF46047 standard; DNA; 15 BP.		
XX	AAF46047;		
XX			
DT	30-MAR-2001 (first entry)		
XX	IGFBP2 oligonucleotide #886.		
XX			

KM Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;  
 KM cytostatic; dermatological; cardiant; virucide; ophthalmological; keloid;  
 KM skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;  
 KM IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;  
 KM growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba;  
 KM keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;  
 KM hyperneovascular condition; hyperplasia; kidney disease;  
 KM neovascular condition of the retina; ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO200078341-A1.  
 XX  
 PD 28-DEC-2000.  
 XX  
 PF 21-JUN-2000; 2000WO-AU000693.  
 XX  
 PR 21-JUN-1999; 99US-0140345P.  
 XX  
 PA (MURD-) MURDOCH CHILDRENS RES INST.  
 XX  
 PI Wraight CJ, Werther GA, Edmondson SR;  
 XX  
 DR WPI; 2001-041421/05.  
 XX  
 PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering  
 PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that  
 PT inhibits or reduces growth factor mediated cell proliferation and/or  
 PT inflammation.  
 PS  
 PS Example 6; Page 39; 201pp; English.  
 XX  
 CC The present invention relates to a method for ameliorating the effects of  
 CC skin disorders. The method comprises contacting the skin with an  
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1  
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of  
 CC inhibiting or reducing growth factor mediated cell proliferation,  
 CC inflammation and/or other disorders. The present sequence is an  
 CC oligonucleotide which can be used to design the antisense  
 CC oligonucleotides of the present invention (see AAT545151 and AAT545153-  
 CC F45161). The method is useful for ameliorating the effects of psoriasis,  
 CC ichthyosis, pityriasis, ruba, pilaris, seborrhoea, keloids, keratosis,  
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a  
 CC hyperneovascular condition such as a neovascular condition of the retina,  
 CC brain or skin, growth factor-mediated malignancies, other sclerotic  
 CC disease, kidney disease, hyperproliferation of the inside of blood  
 CC vessels or any other hyperplasia  
 CC  
 SQ Sequence 15 BP; 3 A; 7 C; 1 G; 4 T; 0 U; 0 Other;  
 XX  
 QY  
 Db 7 CTACGCTACA 17  
 3 CTCCTGCACAC 13  
 XX  
 RESULT 728  
 AAT54219/c  
 ID AAT54219 standard; RNA; 15 BP.  
 XX  
 AC AAT54219;  
 XX  
 DT 25-MAR-2003 (revised)  
 DT 24-MAR-1997 (first entry)  
 XX  
 DE Human IL-5 hammerhead ribozyme target sequence (nt. position 91).  
 XX  
 KM Enzymatic nucleic acid; ribozyme; trans cleavage; inhibition;  
 KM gene expression; downregulation; interleukin-5; IL-5; IGM-1;  
 KM intercellular adhesion molecule; rel A; tumour necrosis factor;

KM TNF-alpha; respiratory syncytial virus; RSV; bcr-abl; oncogene;  
 KM translocation; chronic myelogenous leukaemia; CML; cancer;  
 KM Philadelphia chromosome; inflammation; autoimmune disease;  
 KM atherosclerosis; myocardial infarction; stroke; restenosis;  
 KM transplant rejection; rheumatoid arthritis; psoriasis;  
 KM myocardial ischaemia; Kawasaki disease; septic shock; HIV;  
 KM human immunodeficiency virus; acquired immune deficiency syndrome; AIDS;  
 ss.  
 XX  
 OS Homo sapiens.  
 XX  
 PN WO9523225-A2.  
 XX  
 PD 31-AUG-1995.  
 XX  
 PF 23-FEB-1995; 95MO-IB000156.  
 XX  
 PR 23-FEB-1994; 94US-00201109.  
 PR 29-MAR-1994; 94US-00218934.  
 PR 04-APR-1994; 94US-00222795.  
 PR 07-APR-1994; 94US-00224483.  
 PR 15-APR-1994; 94US-00227958.  
 PR 15-APR-1994; 94US-00228041.  
 PR 18-MAY-1994; 94US-00245736.  
 PR 06-JUN-1994; 94US-00271280.  
 PR 15-AUG-1994; 94US-00291932.  
 PR 16-AUG-1994; 94US-00291433.  
 PR 17-AUG-1994; 94US-00292620.  
 PR 19-AUG-1994; 94US-00293520.  
 PR 02-SEP-1994; 94US-00300000.  
 PR 08-SEP-1994; 94US-00303039.  
 PR 23-SEP-1994; 94US-00311486.  
 PR 23-SEP-1994; 94US-00311749.  
 PR 28-SEP-1994; 94US-00314397.  
 PR 03-OCT-1994; 94US-00316771.  
 PR 07-OCT-1994; 94US-00321992.  
 PR 11-OCT-1994; 94US-00321993.  
 PR 04-NOV-1994; 94US-00334847.  
 PR 10-NOV-1994; 94US-00337608.  
 PR 28-NOV-1994; 94US-00345516.  
 PR 16-DEC-1994; 94US-00357577.  
 PR 23-DEC-1994; 94US-00363233.  
 PR 30-JAN-1995; 95US-00380734.  
 XX  
 PA (RIBO-) RIBOZYME PHARM INC.  
 XX  
 PI Stinchcomb DT, Chowrira B, Dizenzo A, Draper KG, Dudycz LM;  
 PI Grimm S, Karpelisky A, Kisch K, Matulic-Ramic J, McSwigen JA;  
 PI Modak A, Pavco P, Beigleman L, Sullivan SM, Sweedler D, Thompson JD;  
 PI Tracz D, Usman N, Wincott FE, Woolf T;  
 XX  
 DR WPI; 1995-351090/45.  
 XX  
 PT Ribozymes having modified bases and methods for producing them - for use  
 PT in inhibiting disease related genes.  
 PS  
 PS Claim 2; Page 214; 407pp; English.  
 XX  
 CC The present sequence represents a preferred target sequence for an  
 CC enzymatic nucleic acid (i.e. a ribozyme) which cleaves interleukin-5 (IL-  
 CC 5) mRNA at the nucleotide base position indicated in the DB line. Regions  
 CC of the mRNA that do not form secondary folding structures and that  
 CC contain potential hammerhead and hairpin ribozyme cleavage sites were  
 CC identified by computer analysis. Ribozymes directed against these mRNA  
 CC sequences were designed and synthesised with modifications that improve  
 CC their nuclease resistance. The ribozymes cleave the IL-5 target sequences  
 CC and thereby inhibit IL-5 expression, making them useful for treating  
 CC chronic asthma, e.g. by inhibiting the synthesis of eosinophils. The  
 CC and preventing the recruitment and activation of eosinophils. The  
 CC ribozymes can also be used to treat eosinophilia (related to parasitic  
 CC infection or with pulmonary infiltration) and L-tryptophan-associated  
 CC eosinophilia-myalgia syndrome. (Updated on 25-MAR-2003 to correct PI  
 CC field.)

```

XX
SQ Sequence 15 BP; 2 A; 4 C; 4 G; 0 T; 5 U; 0 Other;
Query Match      22.1%; Score 6.2; DB 1; Length 15;
Best Local Similarity 72.7%; Pred. No. 7.7e+02;
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      14 TACAGGAGTTC 24
      ||| ||| ||| |||
Db      14 TACACGTAGGC 4

RESULT 729
ADB00349/c
ID ADB00349 standard; DNA; 17 BP.
AC ADB00349;
XX
XX
XX 20-NOV-2003 (first entry)
XX
XX Human MD23 scanning oligonucleotide SEQ ID 1335.
XX
XX Cytostatic; immunostimulant; gene therapy; vaccine; human;
XX zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;
XX chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
XX developmental disorder; ss.
XX Homo sapiens.
XX
XX EP1281758-A2.
XX
XX 05-FEB-2003.
XX
XX 30-JUL-2002; 2002EP-00016874.
XX
XX 02-AUG-2001; 2001US-00922181.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Shannon M, Gu Y, Nguyen C;
XX
XX WPI; 2003-423107/40.
XX
XX New zinc finger-containing proteins and nucleic acids, useful in
XX manufacturing a medicament for treating or preventing a disorder
XX associated with decreased or increased expression or activity of MD23,
XX MD24, MD27 or MD212, e.g. cancer.
XX
XX Example 8; SEQ ID NO 1335; 103pp; English.
XX
XX The present invention relates to novel human zinc finger-containing
XX proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is
XX encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,
XX MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome
XX 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,
XX or in manufacturing a medicament for treating or preventing a disorder
XX associated with decreased or increased expression or activity of MD23,
XX MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic
XX acids and proteins are also useful for diagnosing or monitoring a disease
XX caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic
XX acids can also be used as probes to detect and characterize gross
XX alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are
XX useful in constructing microarrays for measuring gene expression. The
XX proteins are useful as therapeutic agents for gene therapy or as
XX vaccines. The present sequence was used to illustrate the invention.
XX
SQ Sequence 17 BP; 3 A; 5 C; 6 G; 3 T; 0 U; 0 Other;
Query Match      22.1%; Score 6.2; DB 1; Length 17;
Best Local Similarity 72.7%; Pred. No. 7.7e+02;
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      12 TGTACAGGAG 22
      ||| ||| ||| |||
Db      12 TGTACAGTAC 5

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Db      16 TGCACAGCTAG 6

RESULT 730
ADB00350/c
ID ADB00350 standard; DNA; 17 BP.
AC ADB00350;
XX
XX
XX 20-NOV-2003 (first entry)
XX
XX Human MD23 scanning oligonucleotide SEQ ID 1336.
XX
XX Cytostatic; immunostimulant; gene therapy; vaccine; human;
XX zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;
XX chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
XX developmental disorder; ss.
XX Homo sapiens.
XX
XX EP1281758-A2.
XX
XX 05-FEB-2003.
XX
XX 30-JUL-2002; 2002EP-00016874.
XX
XX 02-AUG-2001; 2001US-00922181.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Shannon M, Gu Y, Nguyen C;
XX
XX WPI; 2003-423107/40.
XX
XX New zinc finger-containing proteins and nucleic acids, useful in
XX manufacturing a medicament for treating or preventing a disorder
XX associated with decreased or increased expression or activity of MD23,
XX MD24, MD27 or MD212, e.g. cancer.
XX
XX Example 8; SEQ ID NO 1336; 103pp; English.
XX
XX The present invention relates to novel human zinc finger-containing
XX proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is
XX encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,
XX MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome
XX 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,
XX or in manufacturing a medicament for treating or preventing a disorder
XX associated with decreased or increased expression or activity of MD23,
XX MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic
XX acids and proteins are also useful for diagnosing or monitoring a disease
XX caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic
XX acids can also be used as probes to detect and characterize gross
XX alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are
XX useful in constructing microarrays for measuring gene expression. The
XX proteins are useful as therapeutic agents for gene therapy or as
XX vaccines. The present sequence was used to illustrate the invention.
XX
SQ Sequence 17 BP; 2 A; 6 C; 6 G; 3 T; 0 U; 0 Other;
Query Match      22.1%; Score 6.2; DB 1; Length 17;
Best Local Similarity 72.7%; Pred. No. 7.7e+02;
Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      12 TGTACAGGAG 22
      ||| ||| ||| |||
Db      15 TGCACAGCTAG 5

```



```

AC ADB00352;
XX
XX 20-NOV-2003 (first entry)
XX
XX Human MD23 scanning oligonucleotide SEQ ID 1338.
XX
XX Cytostatic; immunostimulant; gene therapy; vaccine; human;
XX zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;
XX chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
XX developmental disorder; ss.
XX
XX Homo sapiens.
XX
XX EP1281758-A2.
XX
XX 05-FEB-2003.
XX
XX 30-JUL-2002; 2002EP-00016874.
XX
XX 02-AUG-2001; 2001US-00922181.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Shannon M, Gu Y, Nguyen C;
XX
XX WPI; 2003-423107/40.
XX
XX New zinc finger-containing proteins and nucleic acids, useful in
XX manufacturing a medicament for treating or preventing a disorder
XX associated with decreased or increased expression or activity of
XX MD24, MD27 or MD212, e.g. cancer.
XX
XX Example 8; SEQ ID NO 1338; 103bp; English.
XX
XX The present invention relates to novel human zinc finger-containing
XX proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is
XX encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,
XX MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome
XX 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,
XX or in manufacturing a medicament for treating or preventing a disorder
XX associated with decreased or increased expression or activity of MD23,
XX MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic
XX acids and proteins are also useful for diagnosing or monitoring a disease
XX caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic
XX acids can also be used as probes to detect and characterize gross
XX alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are
XX useful in constructing microarrays for measuring gene expression. The
XX proteins are useful as therapeutic agents for gene therapy or as
XX vaccines. The present sequence was used to illustrate the invention.
XX
XX Sequence 17 BP; 3 A; 6 C; 5 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 22.1%; Score 6.2; DB 1; Length 17;
XX Best Local Similarity 72.7%; Pred. No. 7.6e+02;
XX Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX 12 TGTACAGGAG 22
XX 13 TGCACACTTG 3
XX
XX RESULT 732
XX ADB00351/c
XX ID ADB00351 standard; DNA; 17 BP.
XX
XX ADB00351;
XX
XX 20-NOV-2003 (first entry)
XX
XX Human MD23 scanning oligonucleotide SEQ ID 1337.
XX
XX Cytostatic; immunostimulant; gene therapy; vaccine; human;
XX zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;
XX zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;
XX

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XX chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
XX developmental disorder; ss.
XX
XX Homo sapiens.
XX
XX EP1281758-A2.
XX
XX 05-FEB-2003.
XX
XX 30-JUL-2002; 2002EP-00016874.
XX
XX 02-AUG-2001; 2001US-00922181.
XX
XX (AEOM-) AEOMICA INC.
XX
XX Shannon M, Gu Y, Nguyen C;
XX
XX WPI; 2003-423107/40.
XX
XX New zinc finger-containing proteins and nucleic acids, useful in
XX manufacturing a medicament for treating or preventing a disorder
XX associated with decreased or increased expression or activity of
XX MD24, MD27 or MD212, e.g. cancer.
XX
XX Example 8; SEQ ID NO 1337; 103bp; English.
XX
XX The present invention relates to novel human zinc finger-containing
XX proteins and their coding sequences: MD23, MD24, MD27, MD212. MD23 is
XX encoded at chromosome 7q22.1, MD24 is encoded at chromosome 6p21.3-22.2,
XX MD27 is encoded at chromosome 16p11.2 and MD212 is encoded at chromosome
XX 15q26.1. The MD23, MD24, MD27, and MD212 sequences are useful in therapy,
XX or in manufacturing a medicament for treating or preventing a disorder
XX associated with decreased or increased expression or activity of MD23,
XX MD24, MD27, or MD212, e.g. cancer or developmental disorders. The nucleic
XX acids and proteins are also useful for diagnosing or monitoring a disease
XX caused by altered expression of MD23, MD24, MD27, or MD212. The nucleic
XX acids can also be used as probes to detect and characterize gross
XX alterations in MD23, MD24, MD27, or MD212 genetic locus. The probes are
XX useful in constructing microarrays for measuring gene expression. The
XX proteins are useful as therapeutic agents for gene therapy or as
XX vaccines. The present sequence was used to illustrate the invention.
XX
XX Sequence 17 BP; 2 A; 6 C; 6 G; 3 T; 0 U; 0 Other;
XX
XX Query Match 22.1%; Score 6.2; DB 1; Length 17;
XX Best Local Similarity 72.7%; Pred. No. 7.6e+02;
XX Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;
XX
XX 12 TGTACAGGAG 22
XX 14 TGCACACTTG 4
XX
XX RESULT 733
XX ADB00348/c
XX ID ADB00348 standard; DNA; 17 BP.
XX
XX ADB00348;
XX
XX 20-NOV-2003 (first entry)
XX
XX Human MD23 scanning oligonucleotide SEQ ID 1334.
XX
XX Cytostatic; immunostimulant; gene therapy; vaccine; human;
XX zinc finger protein; MD23; MD24; MD27; MD212; chromosome 7q22.1;
XX chromosome 6p21.3-22.2; chromosome 16p11.2; chromosome 15q26.1; cancer;
XX developmental disorder; ss.
XX
XX Homo sapiens.
XX
XX EP1281758-A2.
XX
XX 05-FEB-2003.
XX

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XX 30-JUL-2002; 2002EP-00016874.  
 PF 02-AUG-2001; 2001US-00922181.  
 PR (AEOM-) AEOMICA INC.  
 XX  
 XX Shannon M, Gu Y, Nguyen C;  
 PI WPI; 2003-423107/40.  
 DR  
 XX New zinc finger-containing proteins and nucleic acids, useful in  
 PT manufacturing a medicament for treating or preventing a disorder  
 PT associated with decreased or increased expression or activity of MDZ3,  
 PT MDZ4, MDZ7 or MDZ12, e.g. cancer.  
 XX  
 XX Example 8; SEQ ID NO 1334; 103bp; English.  
 PS  
 CC The present invention relates to novel human zinc finger-containing  
 CC proteins and their coding sequences: MDZ3, MDZ4, MDZ7, MDZ12. MDZ3 is  
 CC encoded at chromosome 7q22.1, MDZ4 is encoded at chromosome 6p21.3-22.2,  
 CC MDZ7 is encoded at chromosome 16p11.2 and MDZ12 is encoded at chromosome  
 CC 15q26.1. The MDZ3, MDZ4, MDZ7, and MDZ12 sequences are useful in therapy,  
 CC in manufacturing a medicament for treating or preventing a disorder  
 CC associated with decreased or increased expression or activity of MDZ3,  
 CC MDZ4, MDZ7, or MDZ12, e.g. cancer or developmental disorders. The nucleic  
 CC acids and proteins are also useful for diagnosing or monitoring a disease  
 CC caused by altered expression of MDZ3, MDZ4, MDZ7, or MDZ12. The nucleic  
 CC acids can also be used as probes to detect and characterize gross  
 CC alterations in MDZ3, MDZ4, MDZ7, or MDZ12 genetic loci. The probes are  
 CC useful in constructing microarrays for measuring gene expression. The  
 CC proteins are useful as therapeutic agents for gene therapy or as  
 CC vaccines. The present sequence was used to illustrate the invention.  
 CC  
 CC Sequence 17 BP; 3 A; 5 C; 6 G; 3 T; 0 U; 0 Other;  
 SQ  
 Query Match 22.1%; Score 6.2; DB 1; Length 17;  
 Best Local Similarity 72.7%; Pred. No. 7.6e+02;  
 Matches 8; Conservative 0; Mismatches 3; Indels 0; Gaps 0;  
 OY 12 TGTACAGGAG 22  
 DB 17 TGCACACTAG 7  
 RESULT 734  
 ABQ72155  
 ID ABQ72155 standard; DNA; 9 BP.  
 XX  
 AC ABQ72155;  
 XX  
 DT 28-AUG-2002 (first entry)  
 XX  
 DE Zinc finger protein related oligonucleotide target SEQ ID NO:2453.  
 XX  
 KM Zinc finger protein; ZFP; DNA binding protein; zinc finger; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 OS  
 PN WO200242459-A2.  
 XX  
 PD 30-MAY-2002.  
 XX  
 PF 20-NOV-2001; 2001WO-US043438.  
 XX  
 PR 20-NOV-2000; 2000US-00716637.  
 XX  
 PA (SANG-) SANGAMO BIOSCIENCES INC.  
 PA  
 PI Liu Q;  
 PI  
 DR WPI; 2002-500284/53.

XX New zinc finger protein that binds to target site, useful in studying  
 PT gene function and for human therapeutics and plant engineering, comprises  
 PT first, second and third zinc fingers, ordered from N- to C-terminus.  
 XX  
 XX Example 1; Page 62; 81pp; English.  
 PS  
 CC The present invention describes a zinc finger protein (I) that binds to a  
 CC target site, comprising a first (F1), a second (F2), and a third (F3)  
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
 CC and a third (S3) target sub-site. Also described are: (i) a polypeptide  
 CC (II) comprising (i); (2) a polynucleotide (III) encoding (i) or (ii); and  
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that it  
 CC binds to the S1 target sub-site, selecting the F2 zinc finger such that it  
 CC binds to the S2 target sub-site, and selecting the F3 zinc finger such  
 CC that it binds to the S3 target sub-site, thus designing (I) that binds to  
 CC a target site. (I) is useful for recognition of tripler target sub-sites  
 CC having the nucleotide G in the 5'-most position of the sub-site. (I) is  
 CC useful in studying gene function, and for human therapeutics and plant  
 CC engineering. (i), (ii) or (iii) is useful in therapeutic methods to  
 CC modulate the expression of a target region within a subject, in  
 CC diagnostic methods for sequence specific detection of target nucleic acid  
 CC in a sample, and in assays to determine the phenotype and function of  
 CC gene expression. (I) has improved affinity and specificity for their  
 CC target sequences, as well as enhanced biological activity. ABQ72123 to  
 CC ABQ72214 and ABP48191 to ABP51230 represent DNA target sequences and zinc  
 CC finger peptides which are given in the exemplification of the present  
 CC invention  
 CC  
 CC Sequence 9 BP; 1 A; 4 C; 4 G; 0 T; 0 U; 0 Other;  
 SQ  
 Query Match 21.4%; Score 6; DB 1; Length 9;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+03;  
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;  
 OY 2 GGGCCC 7  
 DB 3 GGGCCC 8  
 RESULT 735  
 ABQ72156  
 ID ABQ72156 standard; DNA; 9 BP.  
 XX  
 AC ABQ72156;  
 XX  
 DT 28-AUG-2002 (first entry)  
 XX  
 DE Zinc finger protein related oligonucleotide target SEQ ID NO:2454.  
 XX  
 KM Zinc finger protein; ZFP; DNA binding protein; zinc finger; ss.  
 XX  
 OS Homo sapiens.  
 OS Synthetic.  
 OS  
 PN WO200242459-A2.  
 XX  
 PD 30-MAY-2002.  
 XX  
 PF 20-NOV-2001; 2001WO-US043438.  
 XX  
 PR 20-NOV-2000; 2000US-00716637.  
 XX  
 PA (SANG-) SANGAMO BIOSCIENCES INC.  
 PA  
 PI Liu Q;  
 PI  
 DR WPI; 2002-500284/53.  
 PT New zinc finger protein that binds to target site, useful in studying  
 PT gene function and for human therapeutics and plant engineering, comprises  
 PT first, second and third zinc fingers, ordered from N- to C-terminus.

XX Example 1; Page 62; 81pp; English.

PS The present invention describes a zinc finger protein (I) that binds to a  
 CC target site, comprising a first (F1), a second (F2), and a third (F3)  
 CC zinc finger, ordered F1, F2, F3 from N-terminus to C-terminus, where the  
 CC target site comprises, in 3'-5' direction, a first (S1), a second (S2),  
 CC and a third (S3) target subsequence. Also described are: (1) a polypeptide  
 CC (II) comprising (I); (2) a polynucleotide (III) encoding (I) or (II); and  
 CC (3) designing (M) (I) involves selecting the F1 zinc finger such that it  
 CC binds to the S1 target subsequence, selecting the F2 zinc finger such that it  
 CC binds to the S2 target subsequence, and selecting the F3 zinc finger such that it  
 CC binds to the S3 target subsequence, thus designing (I) that binds to  
 CC a target site. (I) is useful for recognition of triplet target subsequences  
 CC having the nucleotide G in the 5'-most position of the subsequence. (I) is  
 CC useful in studying gene function, and for human therapeutics and plant  
 CC engineering. (I), (II) or (III) is useful in therapeutic methods to  
 CC modulate the expression of a target region within a subject, in  
 CC diagnostic methods for sequence specific detection of target nucleic acid  
 CC in a sample, and in assays to determine the phenotype and function of  
 CC gene expression. (I) has improved affinity and specificity for their  
 CC target sequences, as well as enhanced biological activity. ABQ71213 to  
 CC ABQ72214 and ABP48191 to ABP51230 represent DNA target sequences and zinc  
 CC finger peptides which are given in the exemplification of the present  
 CC invention

CC SQ Sequence 9 BP; 1 A; 4 C; 4 G; 0 T; 0 U; 0 Other;

Query Match 21.4%; Score 6; DB 1; Length 9;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+03;  
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GGGCCC 7  
 |||||  
 Db 3 GGGCCC 8

RESULT 736  
 ADA64482  
 ID ADA64482 standard; DNA; 9 BP.  
 XX  
 AC ADA64482;  
 XX  
 DT 20-NOV-2003 (first entry)  
 XX  
 DE Zinc finger target sequence DNA #940.  
 XX  
 KM ds; target sequence; zinc finger protein; improved affinity;  
 KM multi-finger zinc finger protein; enhanced biological activity.  
 KM improved specificity; enhanced biological activity.  
 XX  
 OS Synthetic.  
 XX  
 PA US2003068675-A1.  
 XX  
 PN 10-APR-2003.  
 XX  
 PD 20-NOV-2001; 2001US-00990186.  
 XX  
 PF 24-MAR-1999; 99US-0126238P.  
 PR 24-MAR-1999; 99US-0126239P.  
 PR 30-JUL-1999; 99US-0146595P.  
 PR 30-JUL-1999; 99US-0146615P.  
 PR 23-MAR-2000; 2000US-00535008.  
 PR 20-NOV-2000; 2000US-00716637.  
 XX  
 XX (LITQ/) LIT Q.  
 XX  
 PA LIT Q;  
 PI  
 DR WPI; 2003-567233/53.  
 XX  
 PT Designing zinc finger protein that has three zinc fingers from N-terminus

PT and C-terminus that bind to subsequence in 3' to 5' direction, in a target  
 CC site, by selecting zinc fingers that bind their respective subsequences.

PS Disclosure; Page 27; 34pp; English.

CC The invention relates to a method of designing a zinc finger protein. The  
 CC method is useful for designing a zinc finger protein. The method provides  
 CC multi-finger zinc finger proteins with improved affinity and specificity  
 CC for their target sequences, as well as enhanced biological activity. The  
 CC present sequence represents a zinc finger protein DNA target sequence.

CC SQ Sequence 9 BP; 1 A; 4 C; 4 G; 0 T; 0 U; 0 Other;

Query Match 21.4%; Score 6; DB 1; Length 9;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+03;  
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 2 GGGCCC 7  
 |||||  
 Db 3 GGGCCC 8

RESULT 737  
 ADA64483  
 ID ADA64483 standard; DNA; 9 BP.  
 XX  
 AC ADA64483;  
 XX  
 DT 20-NOV-2003 (first entry)  
 XX  
 DE Zinc finger target sequence DNA #941.  
 XX  
 KM ds; target sequence; zinc finger protein; improved affinity;  
 KM multi-finger zinc finger protein; enhanced biological activity.  
 KM improved specificity; enhanced biological activity.  
 XX  
 OS Synthetic.  
 XX  
 PA US2003068675-A1.  
 XX  
 PN 10-APR-2003.  
 XX  
 PD 20-NOV-2001; 2001US-00990186.  
 XX  
 PF 24-MAR-1999; 99US-0126238P.  
 PR 24-MAR-1999; 99US-0126239P.  
 PR 30-JUL-1999; 99US-0146595P.  
 PR 30-JUL-1999; 99US-0146615P.  
 PR 23-MAR-2000; 2000US-00535008.  
 PR 20-NOV-2000; 2000US-00716637.  
 XX  
 XX (LITQ/) LIT Q.  
 XX  
 PA LIT Q;  
 PI  
 DR WPI; 2003-567233/53.  
 XX  
 PT Designing zinc finger protein that has three zinc fingers from N-terminus  
 CC and C-terminus that bind to subsequence in 3' to 5' direction, in a target  
 CC site, by selecting zinc fingers that bind their respective subsequences.

PS Disclosure; Page 27; 34pp; English.

CC The invention relates to a method of designing a zinc finger protein. The  
 CC method is useful for designing a zinc finger protein. The method provides  
 CC multi-finger zinc finger proteins with improved affinity and specificity  
 CC for their target sequences, as well as enhanced biological activity. The  
 CC present sequence represents a zinc finger protein DNA target sequence.

CC SQ Sequence 9 BP; 1 A; 4 C; 4 G; 0 T; 0 U; 0 Other;

Query Match 21.4%; Score 6; DB 1; Length 9;  
 Best Local Similarity 100.0%; Pred. No. 1.6e+03;  
 Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Matches 6; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 2 GGGCCC 7  
|||  
Db 3 GGGCCC 8

Search completed: April 19, 2004, 15:00:31  
Job time : 4 secs